Technical Memorandum: June 2011 Surface Water Sampling Results for Frog Mortar Creek Martin State Airport 701 Wilson Point Road Middle River, Maryland

Prepared for:

Lockheed Martin Corporation

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March 2012

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ACRONYMS

AWQC	Ambient Water Quality Criteria
BTAG	Biological Technical Advisory Group
BTEX	benzene, toluene, ethylbenzene, and xylenes
cis-1,2-DCE	*cis*-1,2-dichloroethene
COC	chain of custody
cVOC	chlorinated volatile organic compound
DRA	Dump Road Area
GIS	geographic information system
HASP	health and safety plan
IDW	investigation-derived waste
Lockheed Martin	Lockheed Martin Corporation
MAA	Maryland Aviation Administration
MDE	Maryland Department of the Environment
MSA	Martin State Airport
µg/L	microgram(s) per liter
NRWQC	National Recommended Water Quality Criteria
PA	project assistant
PAHs	polycyclic aromatic hydrocarbons
PCB	polychlorinated biphenyl
PDF	portable document format
PPE	personal protective equipment
RI	remedial investigation
SVOC	semivolatile organic compound
TCE	trichloroethene
Tetra Tech	Tetra Tech, Inc.
USEPA	U.S. Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound

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Section 1
Introduction

On behalf of Lockheed Martin Corporation (Lockheed Martin), Tetra Tech, Inc. (Tetra Tech) has prepared this technical memorandum to detail work conducted as part of the *2011 Surface Water Sampling Work Plan* (Tetra Tech, 2011a) for the Dump Road Area (DRA), Martin State Airport (MSA), in Middle River, Maryland (see Figure 1-1). This technical memorandum presents the results of surface water samples collected from Frog Mortar Creek on June 8, 2011. The objectives of the June 2011 sampling event were to:

- provide additional surface-water-quality data to determine the concentrations and spatial distributions of volatile organic compounds (VOCs) and other chemicals of potential concern in Frog Mortar Creek which may be emanating from a groundwater plume at the Dump Road Area of Martin State Airport
- evaluate the interaction between shallow groundwater and Frog Mortar Creek
- provide information that can be used to assess human health risks for recreational users of Frog Mortar Creek and to update the modeling of shallow groundwater flow patterns and discharge to Frog Mortar Creek

This technical memorandum is organized as follows:

Section 2—Site Background and Previous Investigations: Briefly describes the site and summarizes previous Frog Mortar Creek investigations to date.

Section 3—Investigation Approach and Methodology: Presents the technical approach to surface water sampling and describes the field methodology employed.

Section 4—Results: Presents the investigation findings.

Section 5—Summary: Summarizes the investigation approach and findings.

Section 6—References: Cites references used to compile this memorandum.

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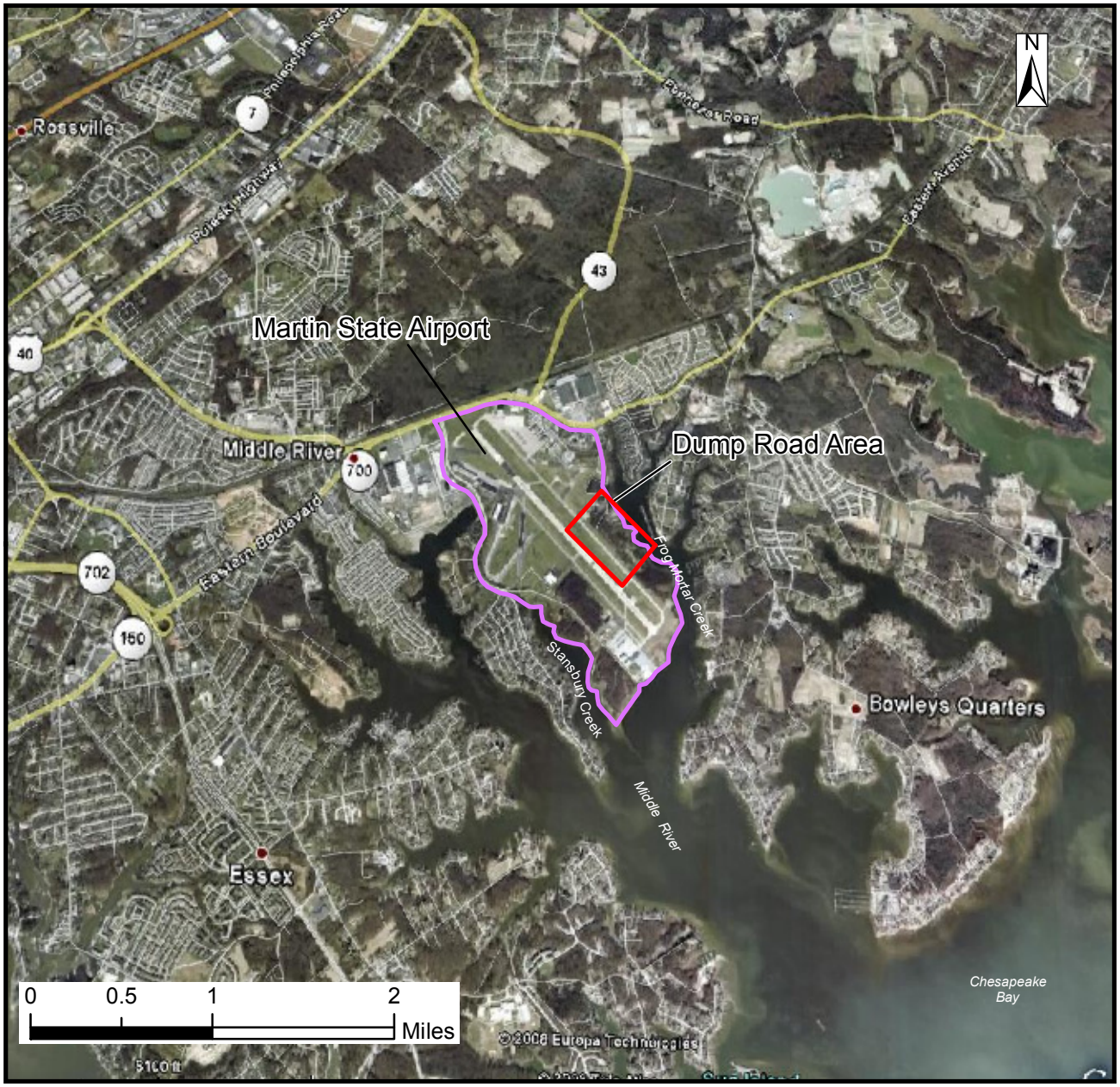

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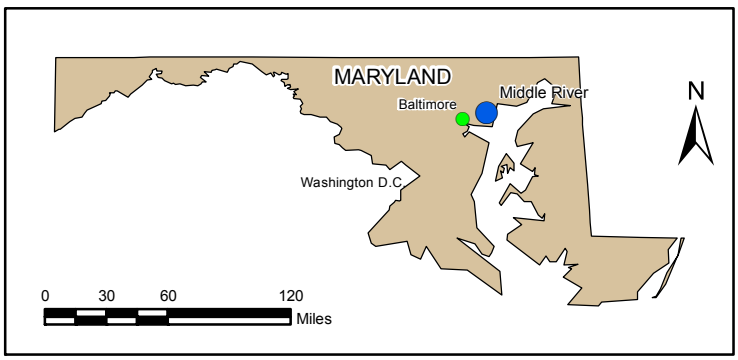

FIGURE 1-1

MARTIN STATE AIRPORT, DUMP ROAD AREA, AND FROG MORTAR CREEK LOCATION MAP

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

DATE MODIFIED:	CREATED BY:
1/9/12	MP

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Section 2
Site Background and Previous Investigations

2.1 SITE BACKGROUND

Martin State Airport (MSA) is located at 701 Wilson Point Road in Middle River, Maryland and is bounded by Frog Mortar Creek to the east and Stansbury Creek and Dark Head Cove to the west (Figure 2-1). Both creeks are tidal tributaries of Chesapeake Bay. The area under investigation is Frog Mortar Creek, east of and adjacent to the Dump Road Area (DRA) site at the MSA. Environmental investigations of the DRA began in 1989 when the Maryland Department of the Environment (MDE) conducted a preliminary assessment of MSA. During the 1930s, 1940s, and 1950s, the Glenn L. Martin Aircraft Company reportedly used a sand pit under the current Taxiway Tango to dump spent battery acid, acid-type strippers and other acidic solutions, along with dredge spoils and construction debris. Also at the time of the preliminary assessment, the U.S. Environmental Protection Agency (USEPA) found no signs of waste disposal, and classified the site as No Further Remedial Action Planned.

In July 1991, four drums containing dried zinc-chromate paint were uncovered during installation of underground electric cables adjacent to Taxiway Tango, prompting MDE to order additional studies (MDE, 1992 and 1997). The location of the four excavated drums is shown in Figure 2-2. The Maryland Aviation Administration (MAA), the owner of the airport at this time, removed the drums and conducted environmental studies from 1991–1998, including geophysical surveys to locate and identify buried materials, and sampling and chemical analyses of soil, groundwater, surface water, and sediment. These initial investigations identified four areas of concern at MSA: the Taxiway Tango Median Anomaly Area, the Drum Area, two ponds (Pond 1 and Pond 2), and the Petroleum Hydrocarbon Area (Figure 2-2).

From 1999–2009, the Lockheed Martin Corporation (Lockheed Martin), the successor entity of the Glenn L. Martin Aircraft Company, conducted a remedial investigation (RI) of the DRA

(Tetra Tech, Inc. [Tetra Tech], 2010a). Supplemental RI studies of the DRA were also conducted by Lockheed Martin in 2010 and 2011 (Tetra Tech 2010b-c, 2011b-d, 2012a-c) to further delineate the extent of soil, groundwater, and sediment chemical impacts indicated by the earlier studies. Through geophysical surveys, test pits, soil borings, and soil-sample chemical analyses, the RI and supplemental studies identified surface and subsurface soil contamination from buried fill material. The fill material consisted of soil, stained soil, and debris, the latter of which is comprised of concrete rubble and disposed industrial items (e.g., batteries, decomposed drums, tires, paint cans, burnt items, sludge, buckets, glass, wood, etc.).

Volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs) (primarily polycyclic aromatic hydrocarbons [PAHs]), and several metals were detected in soils at concentrations exceeding human health risk screening-levels. Chlorinated VOCs (cVOCs) (e.g., trichloroethene [TCE]) and its degradation products), petroleum VOCs (e.g., benzene, toluene, ethylbenzene, and xylenes [BTEX]), and metals were also found in surficial aquifer groundwater at concentrations exceeding Maryland groundwater and drinking water standards. Complete details of the site background, including previous investigations, descriptions of site geology and hydrogeology, and current conditions are provided in the RI (Tetra Tech, 2010a).

2.2 PREVIOUS INVESTIGATIONS OF FROG MORTAR CREEK

2.2.1 1997 Investigation

MAA conducted an investigation in late 1997 to evaluate possible contamination of surface water and bottom sediments in Frog Mortar Creek east and hydraulically downgradient of the DRA (Apex Environmental, 1998). Six sediment and nine surface water samples were collected along three transects in Frog Mortar Creek, as shown in Figure 2-3. Surface water and sediment samples were analyzed for VOCs, SVOCs, metals, cyanide, and pH (a measure of the acidity or alkalinity of a substance).

SVOCs and cyanide were not detected in the surface water samples at concentrations above laboratory-method detection-limits. The only detected VOC (methylene chloride) is a common laboratory contaminant. Several SVOCs (primarily PAHs) and metals were detected above the laboratory-method detection-limits in the sediment samples. These data also showed that several metals exceeded comparison criteria in surface water samples, and copper was detected at high concentrations in sediment samples. As for SVOCs, the Maryland Environmental Service

(MAA's consultant at the time of the investigation) determined that SVOC concentrations in sediment are comparable to background levels found in other sediment samples collected in the Chesapeake Bay, and that they pose no public health or environmental concerns with respect to surface water or bottom-sediment quality. An MDE memorandum of August 20, 1998 (MDE, 1998) reviewed the surface water and sediment data and concluded that these exposure concentrations were within USEPA recommended levels of risk.

2.2.2 2004 Investigation

In July 2004, Tetra Tech collected sediment and surface water samples from Frog Mortar Creek to provide quality data to use in a risk assessment (Tetra Tech, 2006). Two sediment and two surface water samples were collected within 50 feet of the DRA shoreline. These locations were selected based on extensive groundwater sampling and modeling, which indicated the direction of the on-site VOC plume is toward Frog Mortar Creek. Sampling locations are shown in Figure 2-4.

Sediment and surface water samples were analyzed for inorganic constituents, VOCs, SVOCs, polychlorinated biphenyls (PCBs), and pesticides. Very low concentrations of VOCs and reportable concentrations of various metals were detected in these samples. These data were used to assess risk to recreational users of Frog Mortar Creek. The results of the human health risk assessment indicate that contacting sediments and surface water in Frog Mortar Creek while recreating would not pose a significant cancer risk or health hazard to adults, youth, and child recreational users (Tetra Tech, 2006).

2.2.3 2007–2008 Investigation

In 2007–2008, Tetra Tech completed a three-phase investigation of surface water and sediment in Frog Mortar Creek (Tetra Tech, 2009) to identify and sample areas of groundwater discharge into Frog Mortar Creek, to assess potential impacts to sediment and surface water, and to assess whether contaminants may have historically migrated from the site into Frog Mortar Creek via surface erosion. The three-phase investigation performed the following tasks: Phase I used a Trident™ probe to identify locations where groundwater discharged to surface water; Phase II sampled surface water and shallow sediment at locations identified in Phase I as possible groundwater discharge points; and Phase III sampled deeper sediment at locations identified in

Phase II as potentially affected. Sampling locations for the three phases of this investigation are shown in Figures 2-5 through 2-7.

The results of the Phase I Trident™ study identified the likely presence of groundwater discharge at the southern end of the groundwater plume (at the DRA). The Phase II investigation indicated that groundwater discharge appeared to be affecting surface water and sediment in Frog Mortar Creek east of the DRA. The Phase III investigation confirmed the Phase II results, but also indicated that metals and PAHs are widespread in the Frog Mortar Creek system, including upstream locations north of the DRA.

The 2007–2008 investigation concluded that cVOC groundwater contamination was affecting surface water and sediment upon discharge at locations adjacent to and east of the DRA. These locations are within the lateral boundaries of the groundwater plume and known fill area at the DRA. The sediment sampling and analyses found the highest concentrations of cVOCs known to be associated with groundwater at the DRA in sediments adjacent to the site, but that the highest concentrations of metals were typically found at areas away from the DRA, and that the highest concentrations of PAHs are found in Frog Mortar Creek north of the site.

Several concentrations of metals in surface water exceeded USEPA National Recommended Water Quality Criteria (NRWQC). Concentrations of these metals are consistent in Frog Mortar Creek and did not appear to be associated with known MSA contaminant sources, and did not appear to represent a high level of potential risk. Most metals appeared to be in dissolved form and not adsorbed to suspended material in the water column.

The 2007–2008 study concluded that surface water concentrations of PAHs and metals appear to be associated with typical sources in active, recreational water bodies such as Frog Mortar Creek; these include metals from marine paint, PAHs from boat exhaust and oil discharge, and runoff from land sources. Only Gar Gut, an embayment of Frog Mortar Creek to the north, demonstrated impacts that may not be associated with these typical types of contaminant sources in Frog Mortar Creek, and thus may represent a separate source. Gar Gut was found to have localized elevated concentrations of VOCs, PAHs, and metals in surface water and elevated concentrations of PAHs in sediment. The types and concentrations of contaminants at this location have a different signature than contamination found at other locations. Based on the

results of the 2007-2008 investigation, MDE issued a letter confirming no remediation requirements for sediment and surface water are necessary in Frog Mortar Creek (MDE, 2010).

2.2.4 2010 Investigation

As a part of the July 2010 groundwater and surface-water sampling-program, three surface water samples were collected along the western shoreline of Frog Mortar Creek near the DRA (Tetra Tech, 2010c). The 2010 sampling locations are shown in Figure 2-8. Sample MSA-SW38 was collected northeast of wells DMW2A/B, near the center of the DRA groundwater VOC plumes. Samples MSA-SW37 and MSA-SW39 were collected north and south of the DRA, respectively. Sample MSA-SW38 reflects near-shore surface water quality in a locale hydraulically downgradient of the DRA VOC groundwater plume.

Primary site groundwater contaminants TCE, *cis*-1,2-dichloroethene (*cis*-1,2-DCE), vinyl chloride (VC), and 1,4-dioxane were detected in sample MSA-SW38, as well as low concentrations of three other DRA groundwater VOCs: 1,2,4-trichlorobenzene, 1,3-dichlorobenzene, and 1,4-dichlorobenzene. The VC concentration of 32 micrograms per liter (µg/L) exceeded the surface water criterion for human health based on consumption of organisms. These results indicate that VOC-impacted groundwater from the DRA discharges to Frog Mortar Creek. Other site VOCs, such as BTEX, chlorobenzene, and other chlorobenzene isomers, were not detected in Frog Mortar Creek surface water samples collected in 2010. Hexavalent chromium was detected in the three surface water samples at low concentrations. One hexavalent concentration at MSA-SW39 exceeded the human health tap water screening level used for the study. The 2010 surface water results, showing increased concentrations of some constituents of concern, prompted Lockheed Martin and MDE to agree to a more frequent sampling and analysis of surface water in 2011. This report is an outcome off that agreement to conduct more frequent sampling and analysis of Frog Mortar Creek.

2.2.5 March 2011 Investigation

As a part of the 2011 surface-water sampling program, five surface water samples were collected along the western shoreline of Frog Mortar Creek (near the DRA) on March 3, 2011 (Tetra Tech, 2012c). The 2011 sampling locations and chemical analytes exceeding ecological and human health screening criteria are shown in Figure 2-9. All five March 2011 surface water samples were collected near the Frog Mortar Creek shoreline from approximately one-foot below

the water surface. Samples MSA-SW37 and MSA-SW39 were collected north and south of the DRA, respectively.

TCE, *cis*-1,2-DCE, VC, 1,4-dioxane, and metals were detected in the March 2011 surface water samples. PAHs, perchlorate, and hexavalent chromium were not detected in the March 2011 surface water samples. Concentrations of TCE exceeded an ecological screening criterion at locations MSA-SW38 and MSA-SW41 (central portion of the DRA) and xylenes exceeded ecological screening criteria at sample location MSA-SW38. VC was also detected at location MSA-SW38 at a concentration of 140 µg/L, which exceeded a human health consumption-of-organism criterion of 24 µg/L. Metals exceeding the ecological and/or human health screening criteria in these samples include dissolved arsenic, dissolved barium, dissolved cadmium (one exceedance), total iron, and dissolved manganese. However, concentrations of dissolved arsenic, as well as total arsenic, were similar in all samples and were similar to the arsenic concentrations reported for reference samples (i.e., background locations) collected as part of Lockheed Martin's 2007-2008 Frog Mortar Creek investigation.

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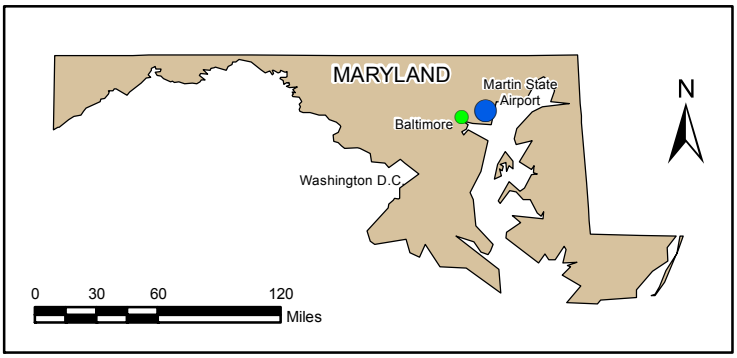

FIGURE 2-1

MARTIN STATE AIRPORT AND SURROUNDING FEATURES

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

DATE MODIFIED:	CREATED BY:
1/13/12	MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Dump Road Features Fig 2-1_revised 1 13 12.mxd)
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FIGURE 2-2

AREAS OF CONCERN
DUMP ROAD AND RUNWAY AREA

LEGEND

POND

MARYLAND AIR NATIONAL GUARD BOUNDARY

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 60 120 240 Feet

N

DATE MODIFIED: 1/13/12

CREATED BY: MP

TETRA TECH

FIGURE 2-3

1997 SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

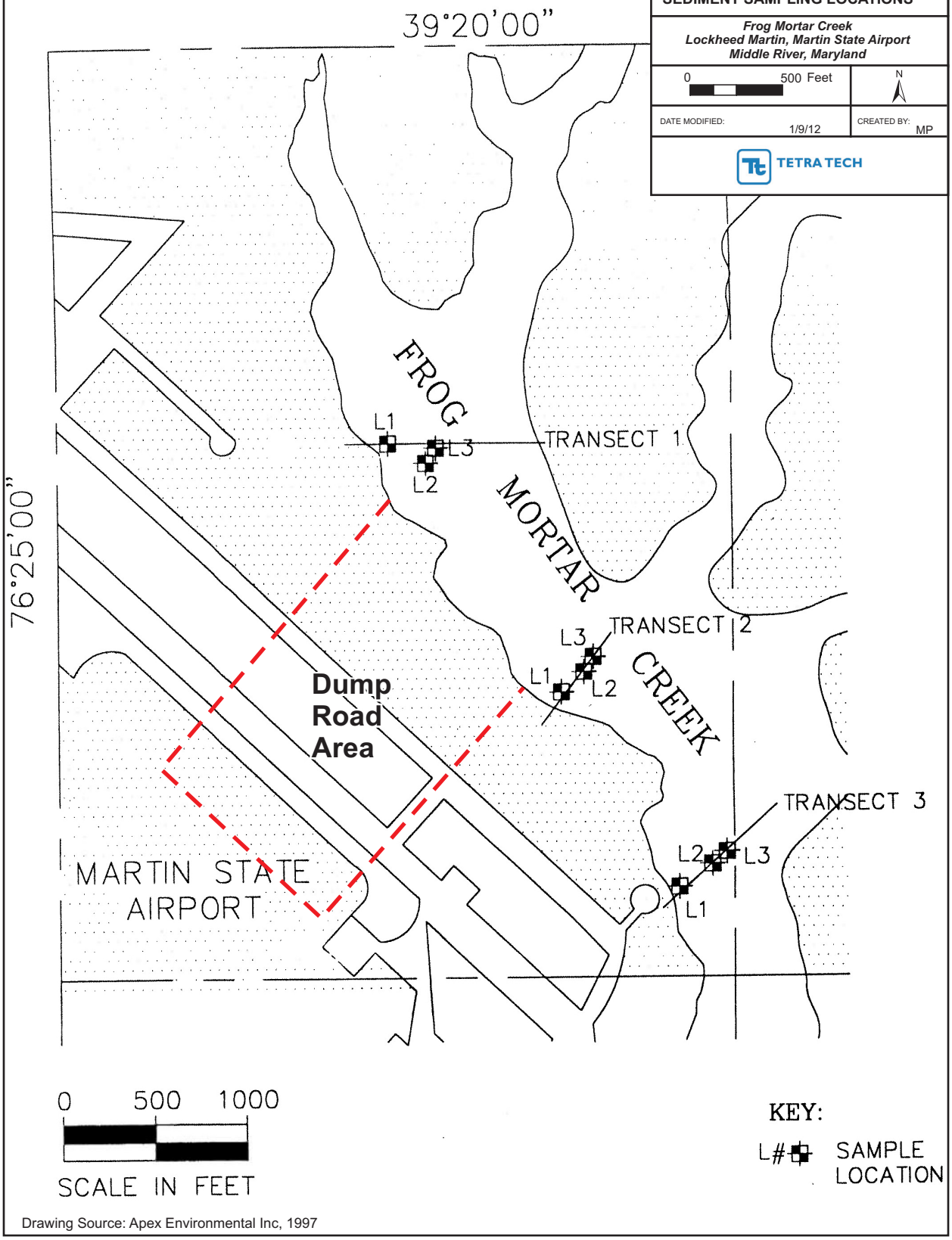
0 500 Feet

N

DATE MODIFIED: 1/9/12

CREATED BY: MP

TETRA TECH



Drawing Source: Apex Environmental Inc, 1997

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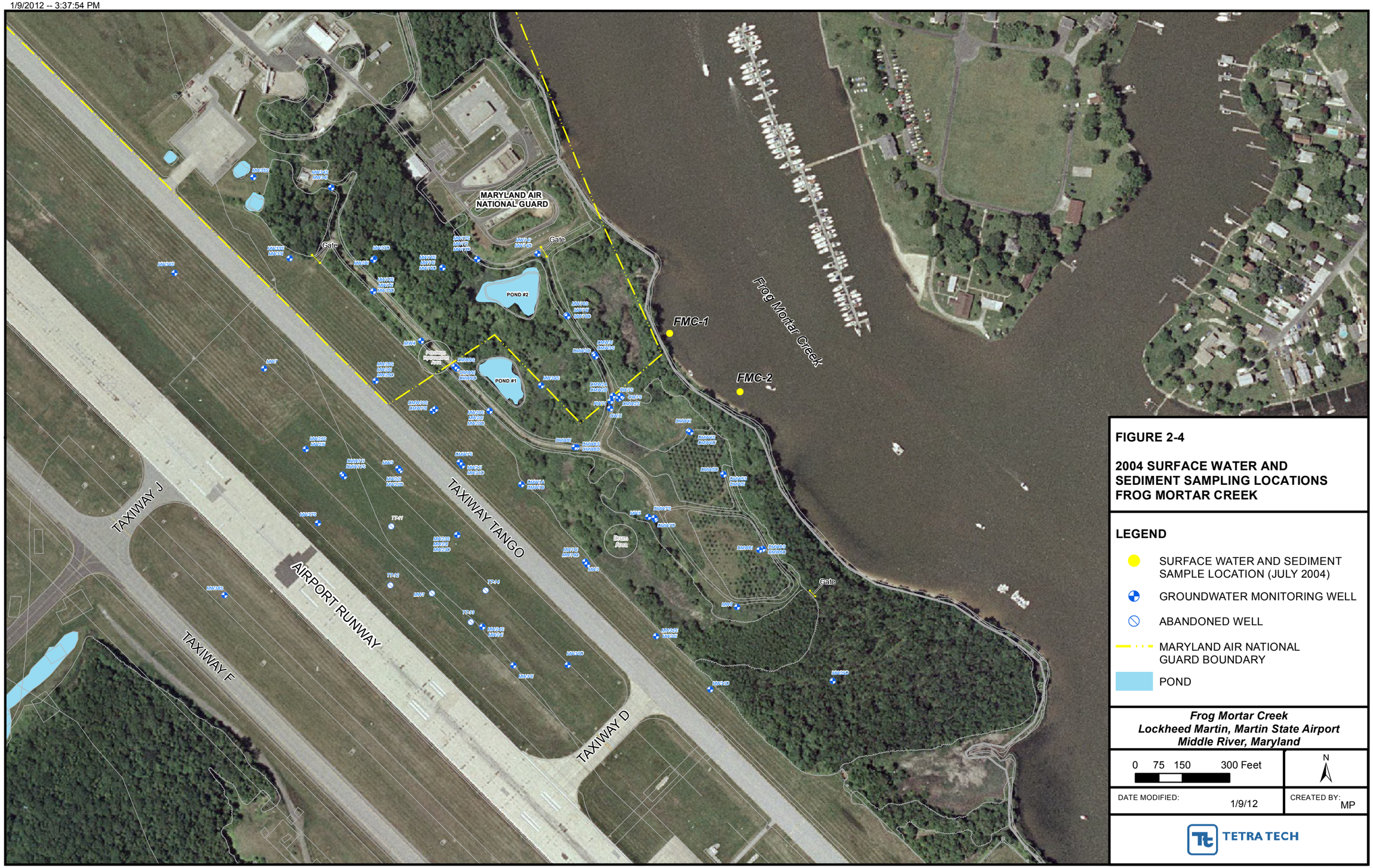

FIGURE 2-4

2004 SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS FROG MORTAR CREEK

LEGEND

- SURFACE WATER AND SEDIMENT SAMPLE LOCATION (JULY 2004)
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 1/9/12

CREATED BY: MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA 2007 Trident Sample Locations.mxd)
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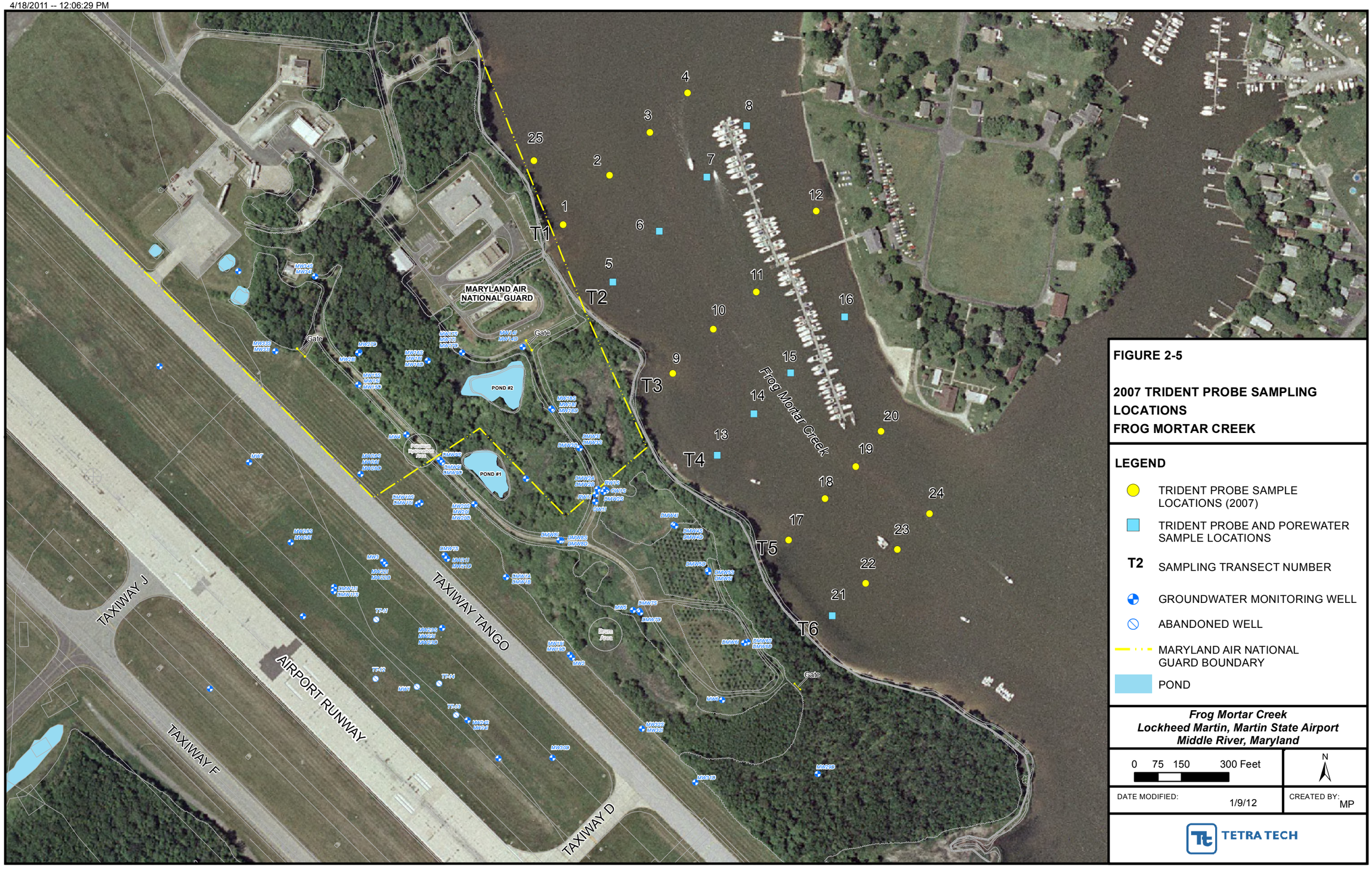

FIGURE 2-5

2007 TRIDENT PROBE SAMPLING LOCATIONS
FROG MORTAR CREEK

LEGEND

- TRIDENT PROBE SAMPLE LOCATIONS (2007)
- TRIDENT PROBE AND POREWATER SAMPLE LOCATIONS
- T2 — SAMPLING TRANSECT NUMBER
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 1/9/12

CREATED BY: MP

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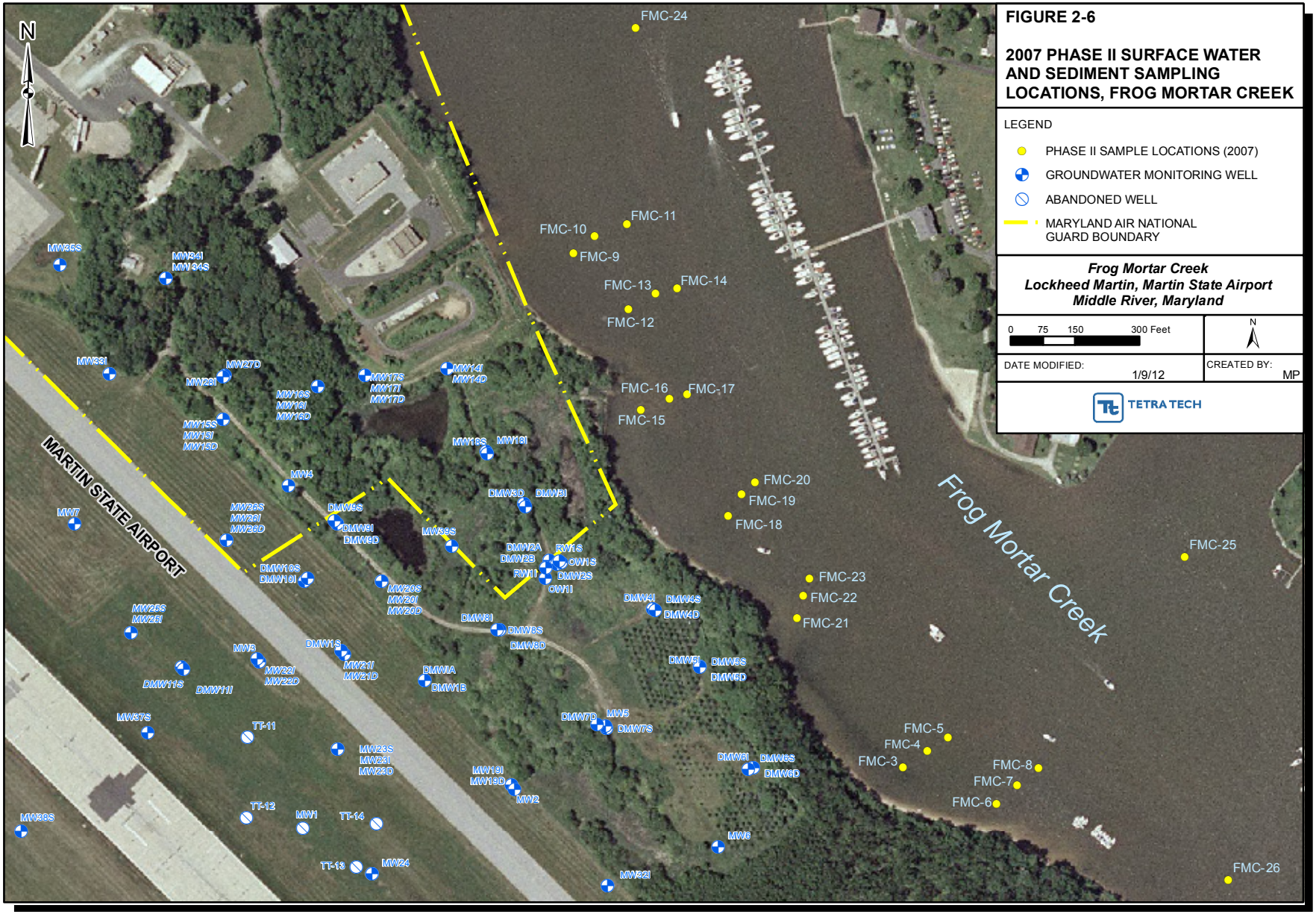

FIGURE 2-6

2007 PHASE II SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS, FROG MORTAR CREEK

LEGEND

- PHASE II SAMPLE LOCATIONS (2007)
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 1/9/12

CREATED BY: MP

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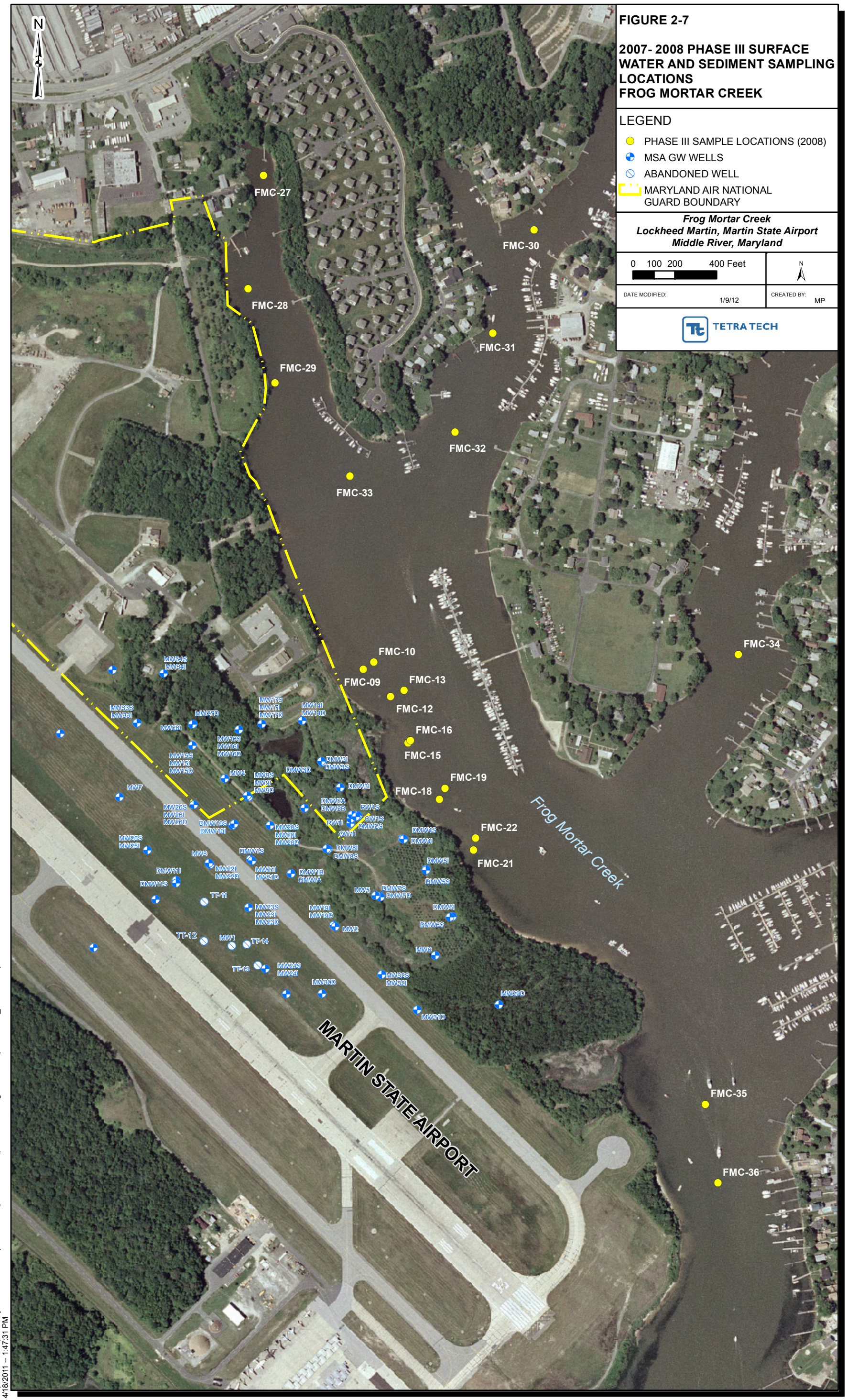

FIGURE 2-7

2007- 2008 PHASE III SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS FROG MORTAR CREEK

LEGEND

- PHASE III SAMPLE LOCATIONS (2008)
- MSA GW WELLS
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 100 200 400 Feet

N

DATE MODIFIED: 1/9/12

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FIGURE 2-8

JULY 2010 SURFACE WATER SAMPLING LOCATIONS

LEGEND

- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- SURFACE WATER SAMPLE LOCATION (2010)
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 1/9/12

CREATED BY: MP

TETRA TECH

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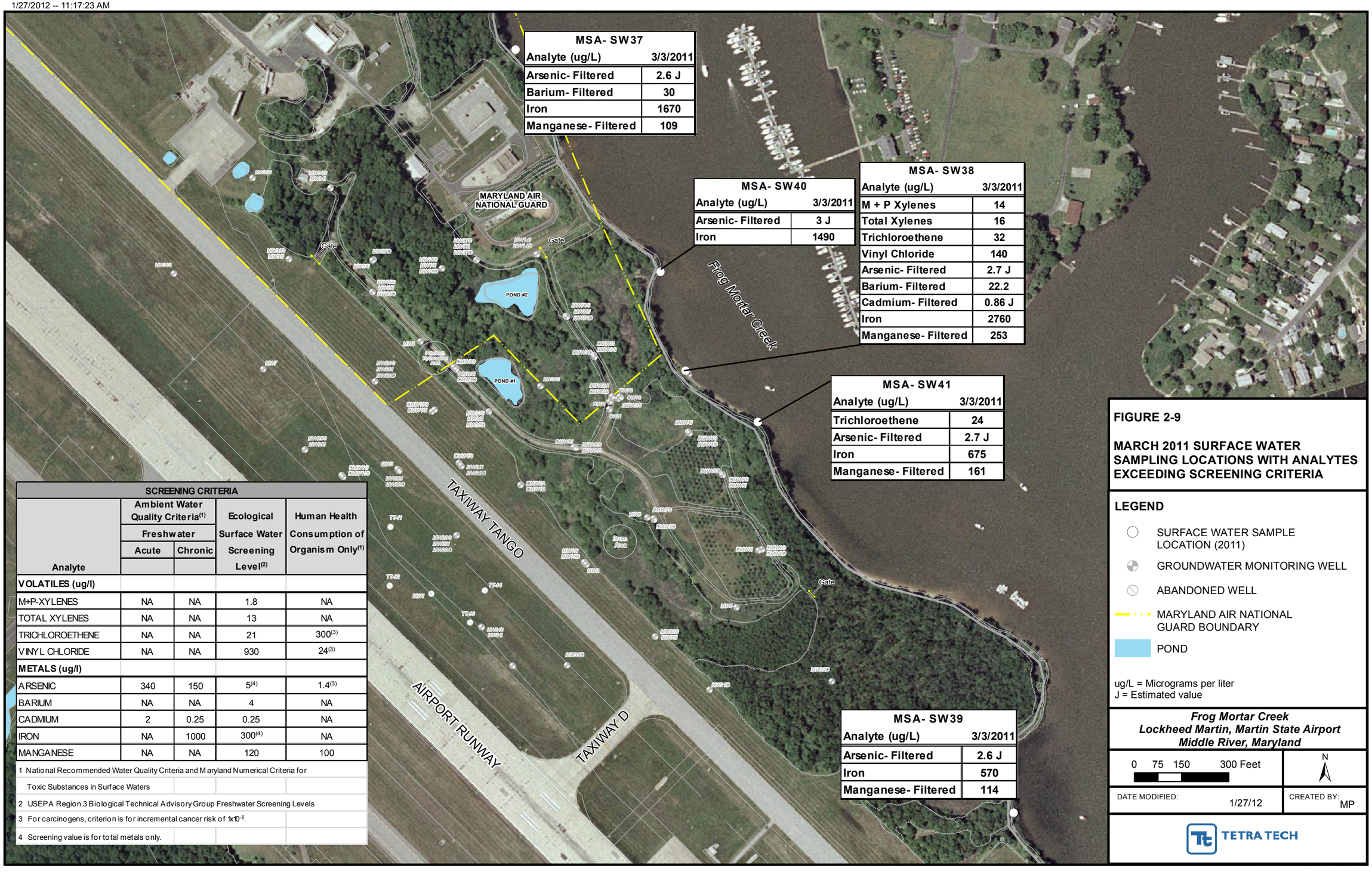

MSA- SW37	
Analyte (ug/L)	3/3/2011
Arsenic- Filtered	2.6 J
Barium- Filtered	30
Iron	1670
Manganese- Filtered	109

MSA- SW40	
Analyte (ug/L)	3/3/2011
Arsenic- Filtered	3 J
Iron	1490

MSA- SW38	
Analyte (ug/L)	3/3/2011
M + P Xylenes	14
Total Xylenes	16
Trichloroethene	32
Vinyl Chloride	140
Arsenic- Filtered	2.7 J
Barium- Filtered	22.2
Cadmium- Filtered	0.86 J
Iron	2760
Manganese- Filtered	253

MSA- SW41	
Analyte (ug/L)	3/3/2011
Trichloroethene	24
Arsenic- Filtered	2.7 J
Iron	675
Manganese- Filtered	161

MSA- SW39	
Analyte (ug/L)	3/3/2011
Arsenic- Filtered	2.6 J
Iron	570
Manganese- Filtered	114

SCREENING CRITERIA				
	Ambient Water Quality Criteria[1]		Ecological	Human Health
	Freshwater		Surface Water	Consumption of
	Acute	Chronic	Screening	Organism Only[1]
Analyte			Level[2]	
VOLATILES (ug/l)				
M+P-XYLENES	NA	NA	1.8	NA
TOTAL XYLENES	NA	NA	13	NA
TRICHLOROETHENE	NA	NA	21	300[3]
VINYL CHLORIDE	NA	NA	930	24[3]
METALS (ug/l)				
ARSENIC	340	150	5[4]	1.4[3]
BARIUM	NA	NA	4	NA
CADMIUM	2	0.25	0.25	NA
IRON	NA	1000	300[4]	NA
MANGANESE	NA	NA	120	100

1 National Recommended Water Quality Criteria and Maryland Numerical Criteria for Toxic Substances in Surface Waters

2 USEPA Region 3 Biological Technical Advisory Group Freshwater Screening Levels

3 For carcinogens, criterion is for incremental cancer risk of 1×10^{-5}.

4 Screening value is for total metals only.

FIGURE 2-9

MARCH 2011 SURFACE WATER SAMPLING LOCATIONS WITH ANALYTES EXCEEDING SCREENING CRITERIA

LEGEND

- SURFACE WATER SAMPLE LOCATION (2011)
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

ug/L = Micrograms per liter
J = Estimated value

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 1/27/12

CREATED BY: MP

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Section 3
Investigation Approach and Methodology

The site-related groundwater volatile organic compounds (VOCs) trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC), as well as several metals, were detected in the July 2010 and March 2011 Frog Mortar Creek surface water samples at concentrations exceeding ecological and/or human health screening-criteria. Additional Frog Mortar Creek surface water samples were collected in June 2011 to confirm the chemical results of previous sampling locations. Sampling locations are shown in Figure 3-1. Surface water samples were collected as part of an ongoing investigation to assess the effects of Dump Road Area (DRA) groundwater contaminants on the water quality of Frog Mortar Creek.

3.1 SURFACE WATER SAMPLING

3.1.1 Surface Water Sampling and Chemical Analyses

Twenty-seven surface water samples were collected from Frog Mortar Creek near the DRA site on June 8, 2011. Three samples were collected along each of nine transects spaced approximately 350 feet apart along the western shoreline of Frog Mortar Creek. Along each transect, one sample was collected near the shoreline ("A" sample), one from approximately 50 feet from the shoreline ("B" sample), and one from approximately 100 feet from the shoreline ("C" sample). Each sample was collected from approximately one foot below the water surface.

Surface water samples were collected as grab samples using a direct-filling sampling technique, whereby a laboratory-cleaned preservative-free sample container is filled by submerging the container to the target depth in the water column. The sample aliquot was then decanted into the appropriate sample containers, taking care to minimize sample agitation. The samples for the dissolved metals analyses were filtered at the laboratory using a 0.45 micron filter. Surface water sampling locations were surveyed using a hand-held global positioning system receiver.

Sampling locations were surveyed in the Maryland State Plane North American Datum of 1983 and recorded in units of feet.

Samples were analyzed for VOCs by SW846 Method 8260B, for semivolatile organic compounds (SVOC) and 1,4-dioxane by SW846 Method 8270C, for Priority Pollutant metals (filtered and unfiltered) by SW846 Methods 6020/7470A, for hexavalent chromium by SW846 Method 218.6, and for perchlorate by U.S. Environmental Protection Agency (USEPA) Method 314. Samples were analyzed by TestAmerica, Inc. in North Canton, Ohio. Samples for hexavalent chromium were analyzed by Columbia Analytical Services in Rochester, New York. Analytical parameters for the samples are shown in Table 3-1.

No duplicates were collected during this investigation. A trip blank (one per cooler containing VOC samples) was submitted for VOC analysis for quality assurance/quality control purposes. Surface-water quality parameters (including temperature, pH, specific conductance, turbidity, dissolved oxygen, and oxidation-reduction potential) were measured in the field and recorded at each location using a portable water quality meter. All information was documented on the surface water sample log sheets provided in Appendix A.

3.1.2 Documentation

A master site logbook was maintained as an overall record of field activities for the site. Sample documentation includes completed chain of custody (COC) forms and surface water-specific sample log sheets. COC forms are standardized to summarize and document pertinent sample information, such as sample identification and type, matrix, date and time of collection, preservation, and analysis requested. Sample custody procedures document sample acquisition and integrity. Surface water sample log sheets are in Appendix A. COC forms are provided along with data validation reports in Appendix B.

3.1.3 Sample Nomenclature and Handling

Surface water samples were identified with a unique sample identification tag. Surface water samples are labeled with an “MSA-SW” prefix followed by the sample number, the profile location (“A”, “B”, or “C”) and six-digit sampling date. For example, a surface water sample collected on June 8, 2011 from MSA-SW37A would be labeled as MSA-SW37A-060811. The

trip blank was labeled with a "TB" prefix followed by the sample's six-digit submittal date (e.g., TB-060811).

Sample handling includes field-related considerations concerning the selection of sample containers, preservatives, allowable holding times, and analyses requested. Proper custody procedures were followed throughout all phases of sample collection and handling. COC protocols were used throughout sample handling to assure the evidentiary integrity of sample containers. These protocols demonstrate that the samples were handled and transferred in a manner that would prevent or detect possible tampering.

Sample containers were released under signature from the laboratory and were accepted under signature by the sampler(s) or individual responsible for maintaining custody until the sample containers are transferred to the sampler(s). Transport containers returning to the laboratory were sealed with strapping tape and a tamper-resistant custody seal. The custody seal contains the signature of the individual releasing the transport container, along with the date and time.

3.1.4 Equipment Decontamination

Both dedicated and disposable equipment were used for surface water sampling, to eliminate decontamination activities. Therefore, this project required no equipment decontamination.

3.1.5 Waste Management

Investigation-derived waste (IDW) consisted of personal protective equipment (PPE), generated during field sampling. PPE IDW was brushed off, placed in trash bags, and disposed of in a facility trash receptacle designated by facility personnel.

3.2 DATA MANAGEMENT

Laboratory data-handling procedures met the requirements of the laboratory subcontract. All analytical and field data are maintained in project files, including copies of COC forms, sample log forms, sampling location maps, and documentation of quality assurance and data corrections.

3.2.1 Data Tracking and Control

A cradle-to-grave sample tracking system was used from the beginning to the end of the sampling event. The field operations leader began and coordinated sample tracking before

mobilizing to the field. Sample container labels were handwritten in the field and reviewed to assure that they were accurate and adhered to work plan requirements. The project manager coordinated with the analytical laboratory to ensure that the laboratory was aware of the number and type of samples and analyses that would be submitted that day.

During field sampling, the field operations leader forwarded the COC to a designated project assistant (PA) and to the laboratory. The PA confirmed that the COC provided the information required by the work plan. This allowed for early detection of errors made in the field so that adjustments could be made before sample analyses.

After successful completion of all requested analyses, the laboratory submitted an electronic deliverable for each sample delivery group. When all electronic deliverables were received from the laboratory, the PA checked the laboratory submittal to determine whether the laboratory had performed all analyses requested. All requested analyses were performed for this project.

3.2.2 Sample Information

Data from field measurements were recorded using appropriate sample log sheets and summarized in tabular form, as were the raw instrument data from the laboratory. The field operations leader verified field data daily; laboratory data were verified by the group supervisor and then by the laboratory's quality control/documentation department. The sample log sheets are provided in Appendix A.

3.2.3 Project Data Compilation

The analytical laboratory generated an Adobe® portable document format (PDF) file of the analytical data package, as well as an electronic database deliverable. The electronic database was checked against the PDF file provided by the laboratory and updated as required, based on data qualifier flags applied during data validation. All data, such as units of measure and chemical nomenclature, were corrected, as necessary, to be consistent with the project database.

3.2.4 Geographical Information System

Data management systems consist of a relational database and geographical information system (GIS) to manage environmental information pertaining to Martin State Airport (MSA). The relational database stores chemical, geological, hydrogeologic, and other environmental data

collected during environmental investigations. The GIS is created from the relational database and contains subsets of the larger data pool. The GIS allows posting of environmental data on base maps to represent the information graphically. Compiled sample, chemical, and positional data were incorporated into the GIS.

3.3 DATA REVIEW

Data from the laboratory were entered into a sample database and evaluated against risk-based criteria. Data validation (consisting of the evaluation of data completeness, holding times, calibrations, precision, accuracy, laboratory and field-blank contamination, and detection limits) was completed concurrent with the data evaluation. These reviews are based on the *USEPA Region III Modifications to the National Functional Guidelines for Data Review* (USEPA, 1993 and 1994), and the specifics of the analytical methods used. Data from this sampling event consist of surface water sample chemical results. Data validation reports and COCs are provided as PDF files in Appendix B (on compact disc). Appendix C presents a table of all June 2011 Frog Mortar Creek surface water sample analytical data, including non-detects.

Collectively, the data are acceptable for their intended use (e.g., site characterization and risk assessment), except for data that have been qualified as unreliable. For this validation, the following data qualifiers (i.e., flags) have been applied to the chemical results presented in this report:

B The analyte was not detected substantially above the level reported in the laboratory or field blank (i.e., the result is considered to be an artifact of the laboratory analysis and is not considered to be a site contaminant).

U Not detected. The analyte is considered to be not detected at the reported value.

J The analyte is considered to be present in the sample. However, the value is estimated and may not be accurate or precise.

L The analyte is considered to be present in the sample. However, the reported result is biased low.

UR The result is considered to be qualitatively or quantitatively unreliable.

UJ The analyte is not detected. However, the quantitation or detection limit may be inaccurate or imprecise.

These flags appear on the chemical results tables in Section 4 and Appendices B and C.

Occasionally, common laboratory or field contaminants may be detected in the samples. The analysis of quality control blanks and other internal laboratory blanks (e.g., method blanks, etc.) are used to determine the significance of the analytical results versus possible laboratory or field contaminants. The common laboratory contaminants for VOCs include acetone, methylene chloride, and 2-butanone. According to the National Functional Guidelines, any compound, other than common laboratory contaminants, detected in the sample and also in an associated blank must be qualified (i.e., "B" flag) when the sample concentration is less than five times the blank concentration. For the common laboratory contaminants listed above, the results are qualified with a "B" flag when the sample concentration is less than 10 times the blank concentration. In addition to the common laboratory blanks listed above, several common metals were reported as blank contamination in several instances. Qualified results are provided in the chemical tables provided in Section 4.

TABLE 3-1

CHEMICAL ANALYSES FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

	Analyses Performed					
Sample ID Containter(s): Preservative:	VOCs (USEPA 8260B) 3x40 ml glass vials HCl	SVOCs and 1,4-Dioxane (USEPA 8270C) 2x1-Liter amber None	Perchlorate (USEPA 314) 250 ml plastic None	Total Metals (USEPA 6020/7470A) 500 ml plastic HNO_3	Dissolved Metals (USEPA 6020/7470A) 500 ml plastic HNO_3	Hexavalent Chromium (USEPA 218.6) 250 ml plastic None
MSA-SW37A	X	X	X	X	X	X
MSA-SW37B	X	X	X	X	X	X
MSA-SW37C	X	X	X	X	X	X
MSA-SW38A	X	X	X	X	X	X
MSA-SW38B	X	X	X	X	X	X
MSA-SW38C	X	X	X	X	X	X
MSA-SW39A	X	X	X	X	X	X
MSA-SW39B	X	X	X	X	X	X
MSA-SW39C	X	X	X	X	X	X
MSA-SW40A	X	X	X	X	X	X
MSA-SW40B	X	X	X	X	X	X
MSA-SW40C	X	X	X	X	X	X
MSA-SW41A	X	X	X	X	X	X
MSA-SW41B	X	X	X	X	X	X
MSA-SW41C	X	X	X	X	X	X
MSA-SW42A	X	X	X	X	X	X
MSA-SW42B	X	X	X	X	X	X
MSA-SW42C	X	X	X	X	X	X
MSA-SW43A	X	X	X	X	X	X
MSA-SW43B	X	X	X	X	X	X
MSA-SW43C	X	X	X	X	X	X
MSA-SW44A	X	X	X	X	X	X
MSA-SW44B	X	X	X	X	X	X
MSA-SW44C	X	X	X	X	X	X
MSA-SW45A	X	X	X	X	X	X
MSA-SW45B	X	X	X	X	X	X
MSA-SW45C	X	X	X	X	X	X

HCL - hydrochloric acid
HNO_3 - nitric acid
ml - milliliter
SVOCs - semivolatile organic compounds
USEPA - U.S. Environmental Protection Agency
VOCs - volatile organic compounds

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Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples June_Sept_Dec_2011.mxd)
1/4/2012 -- 2:24:00 PM

FIGURE 3-1

JUNE 2011 SURFACE WATER SAMPLING LOCATIONS

LEGEND

- SURFACE WATER SAMPLE LOCATION (1 FOOT DEPTH BELOW WATER SURFACE)
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 1/4/12

CREATED BY: MP

TETRA TECH

Section 4
Results

4.1 SURFACE WATER DATA AND SCREENING CRITERIA

Validated surface-water chemical data were used to generate a statistical summary table (Table 4-1) and a detection table (Table 4-2) summarizing the positive detections of chemical analytes in the June 2011 surface water samples. Samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs) (including 1,4-dioxane), total and dissolved (i.e., filtered) metals, hexavalent chromium, and perchlorate. In Table 4-2, the sampling results are screened against U.S. Environmental Protection Agency (USEPA) Region III Biological Technical Advisory Group (BTAG) "Freshwater Screening Benchmarks" (USEPA, 2006), USEPA "National Recommended Water Quality Criteria" (NRWQC) for acute and chronic aquatic organism exposures and for aquatic organism consumption (USEPA, 2009), and State of Maryland "Ambient Water Quality Criteria" (AWQC) for acute and chronic aquatic-organism exposures and for aquatic-organism consumption (*Code of Maryland Regulations*, 2011).

The NRWQC, AWQC and most BTAG screening levels for metals represent concentrations of dissolved metals in the water column; therefore, these criteria are used to screen against the dissolved metals results for Frog Mortar Creek. BTAG screening levels for arsenic, iron, mercury, selenium, and thallium are based on the total metal concentration in the water column. The total metal results for Frog Mortar Creek are used to screen against the BTAG criteria for these five metals. Gray shading in Table 4-2 indicates a result that exceeds only one surface water screening-criterion. Black shading in Table 4-2 indicates a result that exceeds more than one surface water screening-criterion. Figures 4-1 through 4-3 show the concentrations of trichloroethene (TCE), *cis*-1,2-dichloroethene (*cis*-1,2-DCE), and vinyl chloride (VC) for the Frog Mortar Creek samples. Appendix C presents the June 2011 analytical data, including non-detects.

4.2 SURFACE WATER SAMPLING RESULTS

Tables 4-1 and 4-2 show detections of chlorinated VOCs, SVOCs, several metals, and hexavalent chromium in the surface water samples. Perchlorate and 1,4-dioxane were not detected in these samples.

4.2.1 Volatile Organic Compounds

Chlorinated VOCs detected in the samples include TCE, *cis*-1,2-DCE, and VC. Toluene, a volatile constituent of petroleum products, was also detected. TCE, *cis*-1,2-DCE, and VC are the primary chlorinated VOCs detected in the Dump Road Area (DRA) groundwater plume west of Frog Mortar Creek. As shown in Table 4-1 and Figure 4-1, TCE was detected in all but two samples at low concentrations, ranging from 0.19–1.7 micrograms per liter (µg/L). *cis*-1,2-DCE and VC were detected at concentrations similar to those of TCE, but less frequently (see Table 4-1 and Figure 4-2). *cis*-1,2-DCE was detected in 20 samples, with concentrations ranging from 0.26–2.3 µg/L. As shown in Table 4-1 and Figure 4-3, VC was detected in five samples, at concentrations ranging from 0.42–1.4 µg/L. However, all concentrations of VOCs are less than screening criteria.

Toluene, a component of petroleum fuels and a site groundwater contaminant, was detected only in sample MSA-SW42A, at a trace concentration of 0.17 µg/L (Table 4-1), which is less than the screening level (Table 4-2). Acetone was detected in slightly more than half of the samples at trace to low concentrations below its screening level. Acetone is a common laboratory contaminant, so these detections are considered artifacts of the laboratory analyses. Acetone is not a chemical of concern in the DRA groundwater plume.

Concentrations of TCE are greatest at sampling locations MSA-SW38A and MSA-SW38B (1.7 and 1.5 µg/L, respectively), northeast and hydraulically downgradient of DRA monitoring wells DMW2S, DMW2A, DMW3I. These wells contain some of the highest concentrations of site-related constituents in shallow- and intermediate-depth groundwater. Similar, but slightly lower, TCE concentrations were detected at sampling locations MSA-SW40A-B (1.4 and 1.3 µg/L, respectively), MSA-SW41A-B (1.4 and 1.1 µg/L, respectively), and MSA-SW43A-B (1.3 and 1.2 µg/L, respectively) located north and south of sampling location MSA-SW38A-C.

The decreasing TCE trend north and south from the MSA-SW38 sampling area is similar to the March 2011 Frog Mortar Creek samples. However, the June 2011 TCE concentrations at MSA-SW38A-B (1.7 and 1.5 µg/L) are more than an order of magnitude less than the March 2011 TCE concentration of 32 µg/L at MSA-SW38. TCE concentrations generally decrease progressively north and south of MSA-SW38A-C. At most sampling transects, TCE concentrations are highest near the shoreline and decrease progressively in samples collected farther from the shoreline. Concentrations of *cis*-1,2-DCE (Figure 4-2) follow the same pattern as TCE, except that *cis*-1,2-DCE was not detected as far south at sampling locations MSA-SW45A-C and MSA-SW39B.

As shown in Figure 4-3, VC shows spatial distributions and trends similar to those of TCE. As with TCE, the maximum VC concentration of 1.4 µg/L was detected at sampling location MSA-SW38A. VC concentrations were also reported for sampling locations MSA-SW42A and MSA-SW40B (1.2 and 0.58 µg/L, respectively), north of MSA-SW38A. Concentrations typically decrease (or were not detected) in samples collected north and south of the highest concentration area and in those collected farther from the shoreline.

4.2.2 Semivolatile Organic Compounds

SVOCs detected in surface water samples include phthalate esters and phenol. Bis(2-ethylhexyl) phthalate (a phthalate ester) was flagged as a laboratory contaminant because it was detected in one or more method blanks (i.e., "B" validation qualifier); therefore, these detections are considered artifacts of the laboratory analyses. The three other SVOCs were detected infrequently (maximum of two samples); all concentrations are less than screening levels.

4.2.3 Metals

Dissolved arsenic and barium were detected in all samples, and are the only metals to exceed surface water screening levels. Detections of dissolved arsenic and barium range from 1.1–1.7 µg/L and 6.7–7.9 µg/L, respectively. Dissolved barium concentrations exceed the BTAG ecological screening level of 4 µg/L. Dissolved arsenic at most locations slightly exceeds the human health consumption-of-organism level of 1.4 µg/L. However, the dissolved arsenic concentrations (1.1–1.7 µg/L) for June 2011 are lower than the dissolved arsenic concentrations of 2.2–3.9 µg/L reported for reference (i.e., background) sampling locations sampled as part of the 2007–2008 Frog Mortar Creek investigation (Tetra Tech, 2009). Total arsenic (unfiltered

samples) concentrations, ranging from 1.5–2.0 µg/L, are also less than the 2007–2008 reference sampling range.

The dissolved barium concentrations are similar throughout the area sampled, with detected concentrations occurring within a narrow range of 6.7–7.9 µg/L. Total barium was also similar throughout the area sampled, with detected concentrations occurring within a narrow range of 8.5–10.0 µg/L. Barium was not analyzed as part of the 2007–2008 Frog Mortar Creek sampling program; therefore, the June results cannot be compared to prior reference-sample concentrations. Hexavalent chromium was detected in all samples, but at concentrations two orders of magnitude less than screening criteria. Hexavalent chromium was likely detected in all samples due to the use of analytical Method 218.6, which has a lower detection limit (0.01 µg/L) than methods used in previous sampling rounds.

4.2.4 Perchlorate

Perchlorate was not detected in any samples.

TABLE 4-1

STATISTICAL SUMMARY OF ANALYTES DETECTED IN FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND
PAGE 1 OF 2

Chemical	Frequency of Detection[1]		Mininum Non Detected	Maximum Non Detected	Mininum Detected	Maximum Detected	Sample of Maximum Detected	Mean of All Samples	Mean of Positive Detects	Standard Deviation
	Number	Percent								
VOLATILES (ug/l)										
TRICHLOROETHENE	25/27	93%	0.17	0.17	0.19 J	1.7	MSA-SW38A-060811	0.756	0.810	0.466
CIS-1,2-DICHLOROETHENE	20/27	74%	0.17	0.17	0.26 J	2.3	MSA-SW38A-060811	0.602	0.784	0.507
ACETONE	17/27	63%	1.1	1.1	1.1 J	4.4 J	MSA-SW40C-060811	1.27	1.69	0.824
VINYL CHLORIDE	5/27	19%	0.22	0.22	0.42 J	1.4	MSA-SW38A-060811	0.239	0.804	0.329
TOLUENE	1/27	4%	0.13	0.13	0.17 J	0.17 J	MSA-SW42A-060811	0.069	0.170	0.020
SEMIVOLATILES (ug/l)										
BIS(2-ETHYLHEXYL)PHTHALATE	2/27	7%	0.76	2.7	2	160	MSA-SW42C-060811	6.54	81.0	30.7
BUTYL BENZYL PHTHALATE	2/27	7%	0.76	0.77	4	17	MSA-SW42C-060811	1.13	10.5	3.25
PHENOL	2/27	7%	0.57	0.58	0.63 J	2	MSA-SW42C-060811	0.363	1.32	0.334
DI-N-BUTYL PHTHALATE	1/27	4%	0.64	0.64	0.67 J	0.67 J	MSA-SW42C-060811	0.333	0.670	0.067
FILTERED METALS (ug/l)										
ARSENIC	27/27	100%	-	-	1.1 J	1.7 J	MSA-SW38B-060811, MSA-SW38C-060811	1.43	1.43	0.146
BARIUM	27/27	100%	-	-	6.7	7.9	MSA-SW37A-060811	7.24	7.24	0.338
COPPER	27/27	100%	-	-	3	4.1	MSA-SW40C-060811, MSA-SW42C-060811	3.66	3.66	0.302
NICKEL	27/27	100%	-	-	0.68 J	1 J	MSA-SW41A-060811	0.782	0.782	0.084
VANADIUM	27/27	100%	-	-	1.4 J	1.7 J	MSA-SW37B-060811, MSA-SW39C-060811, MSA-SW40C-060811, MSA-SW41A-060811, MSA-SW44C-060811	1.59	1.59	0.077
CHROMIUM	19/27	70%	0.31	0.95	0.32 J	0.72 J	MSA-SW39C-060811	0.359	0.416	0.125
ZINC	10/27	37%	0.5	0.5	0.54 J	4.6 J	MSA-SW44C-060811	0.760	1.63	1.11
TOTAL METALS (ug/l)										
ARSENIC	27/27	100%	-	-	1.5 J	2 J	MSA-SW37B-060811, MSA-SW37C-060811, MSA-SW38A-060811, MSA-SW40B-060811, MSA-SW42B-060811, MSA-SW44A-060811, MSA-SW45C-060811	1.86	1.86	0.128

TABLE 4-1

STATISTICAL SUMMARY OF ANALYTES DETECTED IN FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND
PAGE 2 OF 2

Chemical	Frequency of Detection[1]		Mininum Non Detected	Maximum Non Detected	Mininum Detected	Maximum Detected	Sample of Maximum Detected	Mean of All Samples	Mean of Positive Detects	Standard Deviation
	Number	Percent								
TOTAL METALS (ug/l)										
BARIUM	27/27	100%	-	-	8.5	10	MSA-SW39A-060811, MSA-SW44A-060811	9.25	9.25	0.369
COPPER	27/27	100%	-	-	4.5	8.1	MSA-SW44A-060811	6.03	6.03	0.648
LEAD	27/27	100%	-	-	1.3 J	2.6 J	MSA-SW44A-060811	1.66	1.66	0.313
NICKEL	27/27	100%	-	-	0.77 J	2.8	MSA-SW40B-060811	1.16	1.16	0.400
VANADIUM	27/27	100%	-	-	2.5 J	3.5 J	MSA-SW39A-060811, MSA-SW44A-060811	2.78	2.78	0.268
ZINC	25/27	93%	2.8	3.5	2.8 J	9.3 J	MSA-SW44A-060811	4.85	5.11	1.94
SELENIUM	24/27	89%	0.32	0.32	0.35 J	1 J	MSA-SW45C-060811	0.569	0.620	0.217
CHROMIUM	19/27	70%	0.97	1.3	1 J	2.1	MSA-SW44A-060811	1.13	1.36	0.428
COBALT	1/27	4%	0.52	0.92	1.1	1.1	MSA-SW39A-060811	0.349	1.10	0.157
MISCELLANEOUS (ug/l)										
HEXAVALENT CHROMIUM	27/27	100%	-	-	0.044 L	0.062	MSA-SW37B-060811	0.052	0.052	0.004

1 Analytes are ranked from highest to lowest by percent frequency of detection.

For non-detects, 1/2 sample quantitation limit was used as a proxy concentration.

1/2 the detection limit was used for B qualified data.

J Analyte is present, result is estimated

L Result is biased low; result is expected to be higher.

Associated Samples

MSA-SW37A-060811
MSA-SW37B-060811
MSA-SW37C-060811
MSA-SW38A-060811
MSA-SW38B-060811
MSA-SW38C-060811
MSA-SW39A-060811
MSA-SW39B-060811
MSA-SW39C-060811
MSA-SW40A-060811
MSA-SW40B-060811
MSA-SW40C-060811
MSA-SW41A-060811
MSA-SW41B-060811
MSA-SW41C-060811
MSA-SW42A-060811
MSA-SW42B-060811
MSA-SW42C-060811
MSA-SW43A-060811
MSA-SW43B-060811
MSA-SW43C-060811
MSA-SW44A-060811
MSA-SW44B-060811
MSA-SW44C-060811
MSA-SW45A-060811
MSA-SW45B-060811
MSA-SW45C-060811

TABLE 4-2

CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	Recommended and Ambient Water Quality Criteria[1]			BTAG	MSA-SW37A-060811	MSA-SW37B-060811	MSA-SW37C-060811	MSA-SW38A-060811	MSA-SW38B-060811
LABORATORY ID:					240-948-26	240-948-27	240-948-28	240-948-14	240-948-15
LOCATION:			Human Health	Surface Water	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW38A	MSA-SW38B
SAMPLE DATE:	Freshwater		Consumption of	Screening	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
SAMPLE DEPTH (FT BELOW SURFACE)	Acute	Chronic	Organism Only	Benchmarks[2]	1	1	1	1	1
VOLATILE ORGANIC COMPOUNDS (ug/l)									
ACETONE	NA	NA	NA	1,500	1.3 J	1.4 J	--	1.7 J	2.3 J
CIS-1,2-DICHLOROETHENE	NA	NA	NA	590[4]	0.35 J	0.53 J	--	2.3	1.1
TOLUENE	NA	NA	15,000	2	--	--	--	--	--
TRICHLOROETHENE	NA	NA	300[3]	21	0.48 J	0.58 J	0.68 J	1.7	1.5
VINYL CHLORIDE	NA	NA	24[3]	930	--	0.42 J	--	1.4	0.42 J
SEMIVOLATILE ORGANIC COMPOUNDS (ug/l)									
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	22[3]	16	2.7 B	2.2 B	1.2 B	1.1 B	--
BUTYL BENZYL PHTHALATE	NA	NA	1,900	19	--	--	--	--	--
DI-N-BUTYL PHTHALATE	NA	NA	4,500	19	--	--	--	--	--
PHENOL	NA	NA	860,000	4	--	--	0.63 J	--	--
FILTERED METALS (ug/l)									
ANTIMONY	NA	NA	640	30	0.34 B	0.34 B	0.32 B	0.34 B	0.34 B
ARSENIC	340	150	1.4[3]	*[5]	1.4 J	1.5 J	1.4 J	1.5 J	1.7 J
BARIUM	NA	NA	NA	4	7.9	7.5	7.3	7.5	7.4
CHROMIUM	570	74	NA	74	0.4 B	0.95 B	0.41 B	0.39 J	0.43 J
COBALT	NA	NA	NA	23	0.32 B	0.33 B	0.32 B	0.21 B	0.21 B
COPPER	13	9	NA	9	3.8	3.8	3.8	3.6	3.7
LEAD	65	2.5	NA	2.5	0.31 B	0.31 B	0.3 B	0.3 B	0.33 B
MOLYBDENUM	NA	NA	NA	73	1.7 B	1.7 B	1.7 B	1.5 B	1.5 B
NICKEL	470	52	4,600	52	0.78 J	0.73 J	0.85 J	0.71 J	0.7 J
SELENIUM	NA	5	4,200	*[5]	--	--	--	0.61 B	0.94 B
THALLIUM	NA	NA	0.47	*[5]	0.23 B	0.23 B	0.23 B	0.24 B	0.24 B
TUNGSTEN	NA	NA	NA	NA	0.26 B	0.26 B	0.27 B	0.22 B	0.23 B
VANADIUM	NA	NA	NA	20	1.6 J	1.7 J	1.6 J	1.4 J	1.6 J
ZINC	120	120	26,000	120	--	0.66 J	1.7 J	--	--

TABLE 4-2

CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	Recommended and Ambient Water Quality Criteria[1]			MSA-SW37A-060811	MSA-SW37B-060811	MSA-SW37C-060811	MSA-SW38A-060811	MSA-SW38B-060811
LABORATORY ID:			BTAG	240-948-26	240-948-27	240-948-28	240-948-14	240-948-15
LOCATION:		Human Health	Surface Water	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW38A	MSA-SW38B
SAMPLE DATE:	Freshwater	Consumption of	Screening	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
TOTAL METALS (ug/l)								
ANTIMONY				0.29 B	0.14 B	0.1 B	0.28 B	0.28 B
ARSENIC			5[5]	1.9 J	2 J	2 J	2 J	1.9 J
BARIUM				9.2	9.3	9.3	9.2	9.3
CHROMIUM				0.97 B	1.2 B	1.3 B	1.5 J	1 J
COBALT				0.52 B	0.6 B	0.61 B	0.65 B	0.55 B
COPPER				5.4	5.8	6.1	6.7	5.6
LEAD				1.4 J	1.5 J	1.5 J	1.7 J	1.4 J
MOLYBDENUM				1.6 B	2.2 B	1.8 B	1.6 B	1.6 B
NICKEL				0.81 J	1 J	1.1 J	1.2 J	0.87 J
SELENIUM			1[5]	0.75 J	0.95 J	0.78 J	0.56 J	0.53 J
THALLIUM			0.8[5]	0.22 B	0.25 B	0.24 B	0.22 B	0.22 B
TUNGSTEN				0.23 B	0.27 B	0.19 B	0.25 B	0.24 B
VANADIUM				2.6 J	2.6 J	2.6 J	2.6 J	2.8 J
ZINC				2.8 B	3.6 J	4.4 J	5.6 J	3.8 J
MISCELLANEOUS (ug/l)								
HEXAVALENT CHROMIUM	16	11	NA	11	0.053	0.062	0.048	0.054	0.055
PERCHLORATE[6]	NA	NA	NA	NA	--	--	--	--	--

TABLE 4-2

CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	Recommended and Ambient Water Quality Criteria[1]			BTAG	MSA-SW38C-060811	MSA-SW39A-060811	MSA-SW39B-060811	MSA-SW39C-060811	MSA-SW40A-060811
LABORATORY ID:					240-948-16	240-948-2	240-948-3	240-948-4	240-948-20
LOCATION:			Human Health	Surface Water	MSA-SW38C	MSA-SW39A	MSA-SW39B	MSA-SW39C	MSA-SW40A
SAMPLE DATE:	Freshwater		Consumption of	Screening	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
SAMPLE DEPTH (FT BELOW SURFACE)	Acute	Chronic	Organism Only	Benchmarks[2]	1	1	1	1	1
VOLATILE ORGANIC COMPOUNDS (ug/l)									
ACETONE	NA	NA	NA	1,500	1.7 J	1.5 J	--	1.5 J	1.1 J
CIS-1,2-DICHLOROETHENE	NA	NA	NA	590[4]	0.61 J	--	--	--	1.2
TOLUENE	NA	NA	15,000	2	--	--	--	--	--
TRICHLOROETHENE	NA	NA	300[3]	21	0.87 J	--	0.19 J	--	1.4
VINYL CHLORIDE	NA	NA	24[3]	930	--	--	--	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (ug/l)									
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	22[3]	16	0.91 B	--	--	--	2.2 B
BUTYL BENZYL PHTHALATE	NA	NA	1,900	19	--	--	--	--	--
DI-N-BUTYL PHTHALATE	NA	NA	4,500	19	--	--	--	--	--
PHENOL	NA	NA	860,000	4	--	--	--	--	--
FILTERED METALS (ug/l)									
ANTIMONY	NA	NA	640	30	0.33 B	0.31 B	0.32 B	0.31 B	0.35 B
ARSENIC	340	150	1.4[3]	*[5]	1.7 J	1.2 J	1.3 J	1.4 J	1.6 J
BARIUM	NA	NA	NA	4	7.2	7.2	7.5	6.8	7.4
CHROMIUM	570	74	NA	74	0.44 J	0.32 J	0.42 J	0.72 J	0.41 J
COBALT	NA	NA	NA	23	0.21 B	0.21 B	0.23 B	0.21 B	0.21 B
COPPER	13	9	NA	9	3.8	3	3.1	3	3.8
LEAD	65	2.5	NA	2.5	0.3 B	0.32 B	0.35 B	0.29 B	0.3 B
MOLYBDENUM	NA	NA	NA	73	1.5 B	1.7 B	1.6 B	1.6 B	1.6 B
NICKEL	470	52	4,600	52	0.68 J	0.79 J	0.89 J	0.94 J	0.75 J
SELENIUM	NA	5	4,200	*[5]	0.95 B	--	0.37 B	0.52 B	0.84 B
THALLIUM	NA	NA	0.47	*[5]	0.24 B	0.26 B	0.25 B	0.25 B	0.24 B
TUNGSTEN	NA	NA	NA	NA	0.24 B	0.34 B	0.3 B	0.29 B	0.24 B
VANADIUM	NA	NA	NA	20	1.6 J	1.5 J	1.6 J	1.7 J	1.6 J
ZINC	120	120	26,000	120	--	4 J	--	2 J	--

TABLE 4-2

CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	Recommended and Ambient Water Quality Criteria[1]			MSA-SW38C-060811	MSA-SW39A-060811	MSA-SW39B-060811	MSA-SW39C-060811	MSA-SW40A-060811
LABORATORY ID:			BTAG	240-948-16	240-948-2	240-948-3	240-948-4	240-948-20
LOCATION:		Human Health	Surface Water	MSA-SW38C	MSA-SW39A	MSA-SW39B	MSA-SW39C	MSA-SW40A
SAMPLE DATE:	Freshwater	Consumption of	Screening	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
TOTAL METALS (ug/l)								
ANTIMONY				0.27 B	0.29 B	0.29 B	0.26 B	0.29 B
ARSENIC			5[5]	1.9 J	1.7 J	1.6 J	1.5 J	1.8 J
BARIUM				9	10	9.6	8.5	8.9
CHROMIUM				1.1 J	1.8 J	1.5 J	1.2 J	1.2 J
COBALT				0.58 B	1.1	0.75 B	0.62 B	0.55 B
COPPER				5.9	7.1	5.2	4.5	5.8
LEAD				1.5 J	2.5 J	1.7 J	1.3 J	1.4 J
MOLYBDENUM				1.6 B	2 B	1.7 B	1.6 B	1.7 B
NICKEL				0.92 J	1.8 J	1.3 J	1 J	0.77 J
SELENIUM			1[5]	0.62 J	0.54 J	0.62 J	0.45 J	0.35 J
THALLIUM			0.8[5]	0.22 B	0.29 B	0.24 B	0.23 B	0.22 B
TUNGSTEN				0.24 B	0.44 B	0.37 B	0.31 B	0.27 B
VANADIUM				2.6 J	3.5 J	3 J	2.5 J	2.6 J
ZINC				3.2 J	9.2 J	5.4 J	6 J	2.8 J
MISCELLANEOUS (ug/l)								
HEXAVALENT CHROMIUM	16	11	NA	11	0.052	0.046	0.046	0.047	0.046
PERCHLORATE[6]	NA	NA	NA	NA	--	--	--	--	--

TABLE 4-2

CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	Recommended and Ambient Water Quality Criteria[1]			BTAG	MSA-SW40B-060811	MSA-SW40C-060811	MSA-SW41A-060811	MSA-SW41B-060811	MSA-SW41C-060811
LABORATORY ID:					240-948-21	240-948-22	240-948-11	240-948-12	240-948-13
LOCATION:			Human Health	Surface Water	MSA-SW40B	MSA-SW40C	MSA-SW41A	MSA-SW41B	MSA-SW41C
SAMPLE DATE:	Freshwater		Consumption of	Screening	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
SAMPLE DEPTH (FT BELOW SURFACE)	Acute	Chronic	Organism Only	Benchmarks[2]	1	1	1	1	1
VOLATILE ORGANIC COMPOUNDS (ug/l)									
ACETONE	NA	NA	NA	1,500	2.1 J	4.4 J	1.7 J	1.5 J	1.3 J
CIS-1,2-DICHLOROETHENE	NA	NA	NA	590[4]	1	0.49 J	1.3	0.87 J	0.55 J
TOLUENE	NA	NA	15,000	2	--	--	--	--	--
TRICHLOROETHENE	NA	NA	300[3]	21	1.3	0.73 J	1.4	1.1	0.58 J
VINYL CHLORIDE	NA	NA	24[3]	930	0.58 J	--	--	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (ug/l)									
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	22[3]	16	1.2 B	0.86 B	0.76 B	0.89 B	--
BUTYL BENZYL PHTHALATE	NA	NA	1,900	19	--	--	--	--	--
DI-N-BUTYL PHTHALATE	NA	NA	4,500	19	--	--	--	--	--
PHENOL	NA	NA	860,000	4	--	--	--	--	--
FILTERED METALS (ug/l)									
ANTIMONY	NA	NA	640	30	0.34 B	0.35 B	0.34 B	0.33 B	0.32 B
ARSENIC	340	150	1.4[3]	*[5]	1.1 J	1.3 J	1.6 J	1.5 J	1.4 J
BARIUM	NA	NA	NA	4	7.6	7.8	7.5	7	7
CHROMIUM	570	74	NA	74	0.31 B	0.36 B	0.39 J	0.34 J	0.42 J
COBALT	NA	NA	NA	23	0.33 B	0.33 B	0.21 B	0.2 B	0.2 B
COPPER	13	9	NA	9	3.9	4.1	3.9	3.8	3.8
LEAD	65	2.5	NA	2.5	0.31 B	0.31 B	0.3 B	0.3 B	0.3 B
MOLYBDENUM	NA	NA	NA	73	1.9 B	1.8 B	1.7 B	1.6 B	1.5 B
NICKEL	470	52	4,600	52	0.68 J	0.78 J	1 J	0.74 J	0.77 J
SELENIUM	NA	5	4,200	*[5]	--	--	0.71 B	0.73 B	0.51 B
THALLIUM	NA	NA	0.47	*[5]	0.25 B	0.24 B	0.24 B	0.24 B	0.24 B
TUNGSTEN	NA	NA	NA	NA	0.34 B	0.32 B	0.25 B	0.24 B	0.24 B
VANADIUM	NA	NA	NA	20	1.6 J	1.7 J	1.7 J	1.6 J	1.6 J
ZINC	120	120	26,000	120	0.67 J	0.69 J	--	--	0.74 J

TABLE 4-2

CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	Recommended and Ambient Water Quality Criteria[1]			MSA-SW40B-060811	MSA-SW40C-060811	MSA-SW41A-060811	MSA-SW41B-060811	MSA-SW41C-060811
LABORATORY ID:			BTAG	240-948-21	240-948-22	240-948-11	240-948-12	240-948-13
LOCATION:		Human Health	Surface Water	MSA-SW40B	MSA-SW40C	MSA-SW41A	MSA-SW41B	MSA-SW41C
SAMPLE DATE:	Freshwater	Consumption of	Screening	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
TOTAL METALS (ug/l)								
ANTIMONY				0.3 B	0.28 B	0.29 B	0.27 B	0.27 B
ARSENIC			5[5]	2 J	1.9 J	1.9 J	1.9 J	1.8 J
BARIUM				9.3	8.9	9	8.7	8.9
CHROMIUM				1.1 B	1.1 B	1.1 J	1.1 J	1.4 J
COBALT				0.62 B	0.55 B	0.63 B	0.56 B	0.63 B
COPPER				5.9	5.8	5.9	5.7	6.1
LEAD				1.5 J	1.4 J	1.6 J	1.4 J	1.6 J
MOLYBDENUM				2.1 B	1.7 B	1.6 B	1.6 B	1.5 B
NICKEL				2.8	0.95 J	0.95 J	1 J	1.1 J
SELENIUM			1[5]	0.58 J	0.9 J	0.61 J	0.5 J	0.51 J
THALLIUM			0.8[5]	0.3 B	0.24 B	0.22 B	0.22 B	0.22 B
TUNGSTEN				0.36 B	0.27 B	0.27 B	0.26 B	0.26 B
VANADIUM				2.5 J	2.7 J	2.7 J	2.7 J	2.8 J
ZINC				3.6 J	3.6 J	5.4 J	3.2 J	5.5 J
MISCELLANEOUS (ug/l)								
HEXAVALENT CHROMIUM	16	11	NA	11	0.053	0.051	0.055	0.054	0.051
PERCHLORATE[6]	NA	NA	NA	NA	--	--	--	--	--

TABLE 4-2

CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	Recommended and Ambient Water Quality Criteria[1]			BTAG	MSA-SW42A-060811	MSA-SW42B-060811	MSA-SW42C-060811	MSA-SW43A-060811	MSA-SW43B-060811	MSA-SW43C-060811
LABORATORY ID:					240-948-23	240-948-24	240-948-25	240-948-17	240-948-18	240-948-19
LOCATION:					MSA-SW42A	MSA-SW42B	MSA-SW42C	MSA-SW43A	MSA-SW43B	MSA-SW43C
SAMPLE DATE:	Freshwater				6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
SAMPLE DEPTH (FT BELOW SURFACE)	Acute	Chronic	Human Health Consumption of Organism Only	Surface Water Screening Benchmarks[2]	1	1	1	1	1	1
VOLATILE ORGANIC COMPOUNDS (ug/l)										
ACETONE	NA	NA	NA	1,500	1.6 J	1.2 J	1.3 J	--	1.1 J	--
CIS-1,2-DICHLOROETHENE	NA	NA	NA	590[4]	0.86 J	0.49 J	0.51 J	0.91 J	0.95 J	0.51 J
TOLUENE	NA	NA	15,000	2	0.17 J	--	--	--	--	--
TRICHLOROETHENE	NA	NA	300[3]	21	0.6 J	0.66 J	0.7 J	1.3	1.2	0.82 J
VINYL CHLORIDE	NA	NA	24[3]	930	1.2	--	--	--	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (ug/l)										
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	22[3]	16	1.9 B	1.1 B	160	0.91 B	1.7 B	1.7 B
BUTYL BENZYL PHTHALATE	NA	NA	1,900	19	--	4	17	--	--	--
DI-N-BUTYL PHTHALATE	NA	NA	4,500	19	--	--	0.67 J	--	--	--
PHENOL	NA	NA	860,000	4	--	--	2	--	--	--
FILTERED METALS (ug/l)										
ANTIMONY	NA	NA	640	30	0.34 B	0.33 B	0.32 B	0.33 B	0.34 B	0.32 B
ARSENIC	340	150	1.4[3]	*[5]	1.3 J	1.2 J	1.4 J	1.4 J	1.6 J	1.5 J
BARIUM	NA	NA	NA	4	7.5	7.4	7.4	7.2	7.3	7
CHROMIUM	570	74	NA	74	0.35 B	0.37 B	0.41 B	0.39 J	0.47 J	0.37 J
COBALT	NA	NA	NA	23	0.32 B	0.32 B	0.32 B	0.19 B	0.2 B	0.2 B
COPPER	13	9	NA	9	3.9	3.7	4.1	3.7	3.9	3.7
LEAD	65	2.5	NA	2.5	0.3 B	0.28 B	0.3 B	0.3 B	0.3 B	0.31 B
MOLYBDENUM	NA	NA	NA	73	1.8 B	1.7 B	1.6 B	1.5 B	1.5 B	1.6 B
NICKEL	470	52	4,600	52	0.76 J	0.71 J	0.75 J	0.79 J	0.94 J	0.74 J
SELENIUM	NA	5	4,200	*[5]	--	--	--	0.69 B	0.46 B	0.81 B
THALLIUM	NA	NA	0.47	*[5]	0.24 B	0.23 B	0.23 B	0.23 B	0.24 B	0.24 B
TUNGSTEN	NA	NA	NA	NA	0.28 B	0.27 B	0.26 B	0.22 B	0.23 B	0.25 B
VANADIUM	NA	NA	NA	20	1.6 J	1.5 J	1.6 J	1.6 J	1.6 J	1.5 J
ZINC	120	120	26,000	120	--	--	0.68 J	--	--	--

TABLE 4-2

CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	Recommended and Ambient Water Quality Criteria[1]				MSA-SW42A-060811	MSA-SW42B-060811	MSA-SW42C-060811	MSA-SW43A-060811	MSA-SW43B-060811	MSA-SW43C-060811
LABORATORY ID:				BTAG	240-948-23	240-948-24	240-948-25	240-948-17	240-948-18	240-948-19
LOCATION:			Human Health	Surface Water	MSA-SW42A	MSA-SW42B	MSA-SW42C	MSA-SW43A	MSA-SW43B	MSA-SW43C
SAMPLE DATE:	Freshwater		Consumption of	Screening	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
TOTAL METALS (ug/l)										
ANTIMONY					0.29 B	0.29 B	0.28 B	0.27 B	0.27 B	0.29 B
ARSENIC				5[5]	1.8 J	2 J	1.8 J	1.9 J	1.7 J	1.9 J
BARIUM					9.2	9.3	9.2	9	8.8	9.7
CHROMIUM					1.1 B	1.3 B	1.2 B	1.3 J	1.1 J	1.5 J
COBALT					0.57 B	0.58 B	0.58 B	0.66 B	0.57 B	0.72 B
COPPER					5.8	6.1	6.1	5.8	5.9	6.7
LEAD					1.5 J	1.6 J	1.5 J	1.6 J	1.5 J	1.9 J
MOLYBDENUM					1.7 B	1.7 B	1.6 B	1.5 B	1.5 B	1.6 B
NICKEL					0.83 J	0.94 J	0.96 J	1.1 J	0.89 J	1.1 J
SELENIUM				1[5]	--	0.64 J	--	0.73 J	--	0.41 J
THALLIUM				0.8[5]	0.23 B	0.23 B	0.22 B	0.22 B	0.22 B	0.22 B
TUNGSTEN					0.26 B	0.25 B	0.25 B	0.25 B	0.24 B	0.25 B
VANADIUM					2.6 J	2.8 J	2.6 J	2.6 J	2.6 J	2.9 J
ZINC					4.2 J	3.5 B	4.4 J	3.7 J	4.4 J	5 J
MISCELLANEOUS (ug/l)										
HEXAVALENT CHROMIUM	16	11	NA	11	0.058	0.052	0.054	0.05	0.051	0.056
PERCHLORATE[6]	NA	NA	NA	NA	--	--	--	--	--	--

TABLE 4-2

CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	Recommended and Ambient Water Quality Criteria[1]			BTAG	MSA-SW44A-060811	MSA-SW44B-060811	MSA-SW44C-060811	MSA-SW45A-060811	MSA-SW45B-060811	MSA-SW45C-060811
LABORATORY ID:					240-948-8	240-948-9	240-948-10	240-948-5	240-948-6	240-948-7
LOCATION:					MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW45A	MSA-SW45B	MSA-SW45C
SAMPLE DATE:	Freshwater				6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
SAMPLE DEPTH (FT BELOW SURFACE)	Acute	Chronic	Human Health Consumption of Organism Only	Surface Water Screening Benchmarks[2]	1	1	1	1	1	1
VOLATILE ORGANIC COMPOUNDS (ug/l)										
ACETONE	NA	NA	NA	1,500	--	--	--	--	--	--
CIS-1,2-DICHLOROETHENE	NA	NA	NA	590[4]	0.6 J	0.26 J	0.28 J	--	--	--
TOLUENE	NA	NA	15,000	2	--	--	--	--	--	--
TRICHLOROETHENE	NA	NA	300[3]	21	0.92 J	0.41 J	0.37 J	0.28 J	0.24 J	0.24 J
VINYL CHLORIDE	NA	NA	24[3]	930	--	--	--	--	--	--
SEMIVOLATILE ORGANIC COMPOUNDS (ug/l)										
BIS(2-ETHYLHEXYL)PHTHALATE	NA	NA	22[3]	16	--	--	--	--	--	2
BUTYL BENZYL PHTHALATE	NA	NA	1,900	19	--	--	--	--	--	--
DI-N-BUTYL PHTHALATE	NA	NA	4,500	19	--	--	--	--	--	--
PHENOL	NA	NA	860,000	4	--	--	--	--	--	--
FILTERED METALS (ug/l)										
ANTIMONY	NA	NA	640	30	0.32 B	0.32 B	0.32 B	0.31 B	0.31 B	0.32 B
ARSENIC	340	150	1.4[3]	*[5]	1.4 J	1.4 J	1.5 J	1.3 J	1.4 J	1.5 J
BARIUM	NA	NA	NA	4	6.7	6.7	7.3	6.8	6.7	6.8
CHROMIUM	570	74	NA	74	0.36 J	0.36 J	0.4 J	0.41 J	0.44 J	0.42 J
COBALT	NA	NA	NA	23	0.2 B	0.2 B	0.2 B	0.2 B	0.2 B	0.2 B
COPPER	13	9	NA	9	3.7	3.6	3.7	3.4	3.2	3.3
LEAD	65	2.5	NA	2.5	0.29 B	0.3 B	0.31 B	0.31 B	0.3 B	0.29 B
MOLYBDENUM	NA	NA	NA	73	1.5 B	1.6 B	1.6 B	1.5 B	1.5 B	1.5 B
NICKEL	470	52	4,600	52	0.71 J	0.75 J	0.84 J	0.8 J	0.69 J	0.85 J
SELENIUM	NA	5	4,200	*[5]	0.35 B	0.85 B	--	0.42 B	0.56 B	0.7 B
THALLIUM	NA	NA	0.47	*[5]	0.24 B	0.24 B	0.24 B	0.24 B	0.24 B	0.24 B
TUNGSTEN	NA	NA	NA	NA	0.23 B	0.27 B	0.27 B	0.27 B	0.25 B	0.25 B
VANADIUM	NA	NA	NA	20	1.5 J	1.6 J	1.7 J	1.5 J	1.5 J	1.5 J
ZINC	120	120	26,000	120	--	--	4.6 J	--	--	0.54 J

TABLE 4-2

CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	Recommended and Ambient Water Quality Criteria[1]				MSA-SW44A-060811	MSA-SW44B-060811	MSA-SW44C-060811	MSA-SW45A-060811	MSA-SW45B-060811	MSA-SW45C-060811
LABORATORY ID:				BTAG	240-948-8	240-948-9	240-948-10	240-948-5	240-948-6	240-948-7
LOCATION:			Human Health	Surface Water	MSA-SW44A	MSA-SW44B	MSA-SW44C	MSA-SW45A	MSA-SW45B	MSA-SW45C
SAMPLE DATE:	Freshwater		Consumption of	Screening	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
TOTAL METALS (ug/l)										
ANTIMONY					0.31 B	0.27 B	0.28 B	0.29 B	0.28 B	0.27 B
ARSENIC				5[5]	2 J	1.9 J	1.9 J	1.8 J	1.8 J	2 J
BARIUM					10	9.2	9.5	9.7	9.6	9.5
CHROMIUM					2.1	1.4 J	1.3 J	1.5 J	1.4 J	1.4 J
COBALT					0.92 B	0.69 B	0.69 B	0.74 B	0.75 B	0.74 B
COPPER					8.1	6.5	6.1	6.5	5.9	5.8
LEAD					2.6 J	1.8 J	1.8 J	2 J	1.9 J	1.8 J
MOLYBDENUM					1.6 B	1.5 B	1.7 B	1.6 B	1.6 B	1.6 B
NICKEL					1.5 J	1.2 J	1.2 J	1.3 J	1.3 J	1.3 J
SELENIUM				1[5]	0.41 J	0.63 J	0.49 J	0.75 J	0.56 J	1 J
THALLIUM				0.8[5]	0.23 B	0.22 B	0.23 B	0.23 B	0.23 B	0.23 B
TUNGSTEN					0.28 B	0.28 B	0.3 B	0.3 B	0.3 B	0.29 B
VANADIUM					3.5 J	3 J	3.1 J	2.7 J	3.1 J	2.8 J
ZINC					9.3 J	5.5 J	5.2 J	6.4 J	6 J	8.4 J
MISCELLANEOUS (ug/l)										
HEXAVALENT CHROMIUM	16	11	NA	11	0.052	0.049 L	0.059 L	0.05 L	0.047 L	0.044 L
PERCHLORATE[6]	NA	NA	NA	NA	--	--	--	--	--	--

TABLE 4-2

CHEMICAL RESULTS AND SCREENING CRITERIA FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

1 National Recommended Water Quality Criteria, http://water.epa.gov/scitech/swguidance/standards/current/index.cfm; and Maryland Numerical Criteria for Toxic Substances in Surface Waters, Code of Maryland Regulations (COMAR) 26.08.02.03, http://www.dsd.state.md.us./comar/comarhtml/26/26.08.02.03-2.htm

2 U.S. Environmental Protection Agency (USEPA) Region 3 Biological Technical Advisory Group (BTAG) Freshwater Screening Benchmarks

3 For carcinogens, criterion is for incremental cancer risk of $1x10^{-5}$.

4 The BTAG screening benchmark for 1,2-dichloroethene (590 ug/L) is used as a surrogate screening level for cis-1,2-dichloroethene.

5 This BTAG screening benchmark is for the total metal concentration. Therefore, only the total metal concentrations are screened against the BTAG screening benchmark for this metal.

6 The detection limit for perchlorate was 0.36 micrograms per liter (ug/L).

Gray shading indicates the value exceeds one of the criteria.

Black highlighted cell indicates the concentration exceeds more than one criteria.

-- - Not detected at the method detection limit.

B - Result is attributed to laboratory blank contamination per USEPA validation rules.

J - Positive result is considered estimated.

ug/l - micrograms per liter.

NA = Not analyzed or criterion not available (i.e., not developed).

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Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples TCE concentration June2011_revised 012712.mxd)
1/27/2012 -- 10:09:27 AM

FIGURE 4-1

CONCENTRATIONS OF TRICHLOROETHENE IN SURFACE WATER SAMPLES, JUNE 2011 FROG MORTAR CREEK

LEGEND

- JUNE 2011 SURFACE WATER SAMPLE LOCATION (1 FOOT DEPTH BELOW WATER SURFACE)
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- TRICHLOROETHENE ISOCONCENTRATION (UG/L) IN SURFACE WATER
- INFERRED
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

(1.7) = TRICHLOROETHENE CONCENTRATION
J = ESTIMATED VALUE
- - = NOT DETECTED

Concentration in micrograms per liter (ug/L)

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 1/27/12

CREATED BY: MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples CIS 1-2 Dichloroethene June2011_revised.mxd)
1/27/2012 -- 10:13:21 AM

FIGURE 4-2

CONCENTRATIONS OF CIS-1,2-DICHLOROETHENE IN SURFACE WATER SAMPLES, JUNE 2011 FROG MORTAR CREEK

LEGEND

- JUNE 2011 SURFACE WATER SAMPLE LOCATION (1 FOOT DEPTH BELOW WATER SURFACE)
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- CIS-1,2-DICHLOROETHENE ISOCONCENTRATION (UG/L) IN SURFACE WATER
- INFERRED
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

(1.7) = CIS-1,2-DICHLOROETHENE CONCENTRATION
J = ESTIMATED VALUE
- - = NOT DETECTED

Concentration in micrograms per liter (ug/L)

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 1/27/12

CREATED BY: MP

TETRA TECH

Map Document: (K:\GProject\MartinStateAirport-LMC\MapDocs\MXD\Maps\MSA Surface Water Samples Vinyl Chloride concentration June2011_revised 12712.mxd)
1/27/2012 -- 10:16:03 AM

FIGURE 4-3

CONCENTRATIONS OF VINYL CHLORIDE IN SURFACE WATER SAMPLES, JUNE 2011 FROG MORTAR CREEK

LEGEND

- JUNE 2011 SURFACE WATER SAMPLE LOCATION (1 FOOT DEPTH BELOW WATER SURFACE)
- GROUNDWATER MONITORING WELL
- ABANDONED WELL
- VINYL CHLORIDE ISOCONCENTRATION (UG/L) IN SURFACE WATER (1 FOOT DEPTH)
- INFERRED
- MARYLAND AIR NATIONAL GUARD BOUNDARY
- POND

(1.7) = VINYL CHLORIDE CONCENTRATION
J = ESTIMATED VALUE
- - = NOT DETECTED

Concentration in micrograms per liter (ug/L)

Frog Mortar Creek
Lockheed Martin, Martin State Airport
Middle River, Maryland

0 75 150 300 Feet

N

DATE MODIFIED: 1/27/12

CREATED BY: MP

TETRA TECH

Section 5
Summary

The following summarizes Lockheed Martin Corporation's (Lockheed Martin's) June 2011 Frog Mortar Creek surface water investigation and findings:

- twenty-seven surface water samples were collected from Frog Mortar Creek on June 8, 2011 and chemically analyzed to confirm the results of previous surface water samples collected in March 2011, and to assess the extent to which surface water in Frog Mortar Creek is affected by groundwater constituents beyond the locations sampled in March 2011

- Three samples were collected along each of nine transects, spaced approximately 350 feet apart, along the western shoreline of Frog Mortar Creek. Along each transect, one sample was collected near the shoreline ("A" sample), one was collected approximately 50 feet from the shoreline ("B" sample) and one was collected approximately 100 feet from the shoreline ("C" sample). Each sample was collected from approximately one foot below the water surface.

- all samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs, including 1,4-dioxane), filtered and unfiltered metals, hexavalent chromium, and perchlorate

- data were validated in accordance with the U.S. Environmental Protection Agency (USEPA) *Region III Modifications to the National Functional Guidelines for Data Review* and the specifics of the analytical methods used

- sampling results were screened against U.S. Environmental Protection Agency Region III Biological Technical Advisory Group (BTAG) ecological freshwater screening benchmarks, U.S. Environmental Protection Agency "National Recommended Water Quality Criteria" (NRWQC) for acute and chronic aquatic organism exposures and for human health aquatic organism consumption, and State of Maryland "Ambient Water Quality Criteria" (AWQC) for acute and chronic aquatic-organism exposures and for human health aquatic-organism-consumption

- volatile organic compounds (primarily trichloroethene [TCE], *cis*-1,2-dichloroethene [*cis*-1,2-DCE] and vinyl chloride [VC]), a few semivolatile organic compounds, and metals were detected in the June 2011 surface water samples

- Concentrations of volatile organic compounds are greatest for sampling location MSA-SW38A, northeast and hydraulically downgradient of the Dump Road Area (DRA) monitoring wells that contain some of the highest concentrations of site-related

constituents in groundwater (e.g., wells DMW2S/A/B and DMW3S/I/D). Concentrations of volatile organic compounds are lower in the June 2011 samples than in the March 2011 samples.

- Concentrations of trichloroethene and *cis*-1,2-dichloroethene decrease progressively north and south of MSA-SW38A-C. *cis*-1,2-Dichloroethene was not detected as far south as trichloroethene (i.e., not detected in MSA-SW45A-C and MSA-SW39B). The maximum concentration of vinyl chloride was detected at location MSA-SW38A, with lower concentrations detected in samples collected from transects to the north (MSA-SW40B, MSA-SW42A, and MSA-SW37B). Vinyl chloride was not detected south of transect MSA-SW38.

- at most sampling transects, trichloroethene and *cis*-1,2-dichloroethene concentrations are highest near the shoreline and decrease progressively in samples collected farther from the shoreline

- vinyl chloride was not detected beyond 50 feet from the shoreline

- concentrations of volatile organic compounds are less than screening criteria

- perchlorate and 1,4-dioxane were not detected in the June 2011 surface water samples

- semivolatile organic compounds were either detected infrequently or are considered artifacts of the laboratory analyses. All concentrations of semivolatile organic compounds are less than screening levels.

- Metals exceeding screening criteria in the June 2011 Frog Mortar Creek samples include dissolved arsenic and barium. The June 2011 dissolved and total arsenic concentrations are lower than the dissolved arsenic concentrations for reference (i.e., background) samples collected as part of Lockheed Martin Corporation's 2007–2008 Frog Mortar Creek investigation. The June results for barium cannot be compared to prior reference-sample concentrations because barium was not analyzed as part of the 2007–2008 Frog Mortar Creek sampling program.

Section 6
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APPENDIX A—SURFACE WATER SAMPLE LOG SHEETS

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

Sample ID No.: MSA-SW37A-060811
Sample Location: MSA-SW 37
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1316								
Depth: 1 ft	—	8.69	1.20	29.6	10.47	10.49	0.1	116
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1316

MAP:

GPS Coordinates
39.2943
76.40906

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW37B-060811
Sample Location: MSA-SW 37
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1323								
Depth: 1 ft	—	8.94	1.19	30.1	8.96	11.26	0.1	110
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

CT +6 = 1323

MAP:

GPS Coordinates
39.32852
76.40896

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW37C-060811
Sample Location: MSA-SW 37
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1328								
Depth: 1ft								
Method: Grab	—	9.02	1.19	29.6	8.96	11.47	0.1	107

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1328

MAP:

GPS Coordinates:
39.32862
76.40882

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW38A-060811
Sample Location: MSA-SW 38
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1105								
Depth: 1ft	—	8.92	1.17	28.6	10.49	11.10	0.1	107
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1222

MAP:

GPS Coordinates
39.32579
76.40735

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW38-060811
Sample Location: MSA-SW 38
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1110								
Depth: 1 ft								
Method: Grab	—	8.88	1.14	28.9	8.27	11.02	0.1	104

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1223

MAP:

GPS Coordinates
39.32455
76.40576

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW38(-060811
Sample Location: MSA-SW 38
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6 / 8 /2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1120								
Depth: 1ft	—	8.90	1.15	28.7	9.02	11.10	0.1	106
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1224

MAP:

GPS Coordinates
39.3260
76.4070

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

Sample ID No.: MSA-SW39-060811
Sample Location: MSA-SW 39
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0900								
Depth: 1 ft								
Method: Grab	–	6.34	0.857	26.5	27.0	7.97	0.0	194

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1245

MAP:

GPS Coordinates
39.32190
76.40358

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW398-060811
Sample Location: MSA-SW 39
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0905								
Depth: 1 ft	—	8.96	0.854	29.8	10.42	10.24	0.0	141
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

$Cr^{+6} = 1246$

MAP:

GPS Coordinates
39.32193
76.40545

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW39C - 060811
Sample Location: MSA-SW 39
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0910								
Depth: 1 ft	—	9.18	0.849	29.9	10.99	10.83	0.0	
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

$Cr^{+6} = 1247$

MAP:

GPS Coordinates
39.32197
76.40329

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

Sample ID No.: MSA-SW40A-060811
Sample Location: MSA-SW 40
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1135								
Depth: 1ft								
Method: Grab	—	8.91	1.19	29.1	9.50	11.21	0.1	118

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	√
TCL SVOCs	None	2	1-liter glass	√
Metals (total)	HNO_3 pH<2	1	500 ml plastic	√
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	√
Hexavalent chromium	None	1	250 ml plastic	√
Perchlorate	None	1	250 ml plastic	√

OBSERVATIONS / NOTES:

$C_r^{+6} = 1229$

MAP:

GPS Coordinates
39.32670
76.48752

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

Sample ID No.: MSA-SW408-080811
Sample Location: MSA-SW40
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1100								
Depth: 1 Ft								
Method: Grab	—	8.93	1.17	29.5	10.21	10.25	0.1	111

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

$Cr^{+6} = 1230$

MAP:

GPS Coordinates
39.32662
76.40742

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

Sample ID No.: MSA-SW 40-060811
Sample Location: MSA-SW 40
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1150	—	8.96	1.17	28.2	11.2	10.54	0.1	113
Depth: 1ft								
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1231

MAP:

GPS Coordinates
39.32676
76.40725

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW41A-060811
Sample Location: MSA-SW 41
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1040								
Depth: 1ft	—	9.75	1.17	28.6	9.54	10.57	0.1	101
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1216

MAP:

GPS Coordinates
39.32523
76.40636

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

Sample ID No.: MSA-SW 41B-060811
Sample Location: MSA-SW 41
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1050								
Depth: 1 ft	—	8.84	1.17	28.5	9.75	10.64	0.1	100
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1217

MAP:

GPS Coordinates
39.32523
76.40609

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW4C-060811
Sample Location: MSA-SW 4
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1100								
Depth: Lfx	—	8.84	1.14	27.8	11.0	9.78	0.1	105
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1218

MAP:

GPS Coordinates
39.32539
76.40586

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW02A - 060811
Sample Location: MSA-SW 42
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1155	–	8.83	1.19	29.16	9.96	10.27	0.1	116
Depth: 1 ft								
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1235

MAP:

GPS Coordinates
39.32739
76.40844

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

Sample ID No.: MSA-SW426-060811
Sample Location: MSA-SW 42
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1205								
Depth: 1ft	—	8.90	1.16	29.3	8.90	10.38	0.1	116
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1236

MAP:

GPS Coordinates
39.32748
76.40826

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW42C-060811
Sample Location: MSA-SW 42
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1240								
Depth: 1.5ft								
Method: Grab	–	8.92	1.17	28.9	9.66	10.80	0.1	111

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

$Cr^{+6} = 1237$

MAP:

GPS Coordinates
39.32760
76.40815

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW43A-060811
Sample Location: MSA-SW 43
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/6/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1020								
Depth: 1ft	—	7.75	1.11	28.2	13.5	9.60	0.1	126
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	√
TCL SVOCs	None	2	1-liter glass	√
Metals (total)	HNO_3 pH<2	1	500 ml plastic	√
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	√
Hexavalent chromium	None	1	250 ml plastic	√
Perchlorate	None	1	250 ml plastic	√

OBSERVATIONS / NOTES:

Cr^{+6} = H2O

MAP:

GPS Coordinates
39.32455
76.40576

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW458-060811
Sample Location: MSA-SW 43
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1025								
Depth: 1ft								
Method: Grab	-	8.77	1.16	28.4	11.2	10.67	0.1	101

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1211

MAP:

GPS Coordinates
39.32455
76.40576

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW43(-060811
Sample Location: MSA-SW 43
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1030								
Depth: 1ft	–	8.70	1.14	27.8	12.7	0.28	0.1	102
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	
TCL SVOCs	None	2	1-liter glass	
Metals (total)	HNO_3 pH<2	1	500 ml plastic	
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	
Hexavalent chromium	None	1	250 ml plastic	
Perchlorate	None	1	250 ml plastic	

OBSERVATIONS / NOTES:

Cr^{+6} = 1212

MAP:

GPS Coordinates
39.32465
76.40559

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

Sample ID No.: MSA-SW 44 - 060811
Sample Location: MSA-SW 44
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0945								
Depth: Lft	—	7.45	0.996	27.6	15.3	9.36	0.0	121
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

$Cr^{+6} = 1259$

MAP:

GPS Coordinates
39.32380
76.40469

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

Sample ID No.: MSA-SW44B-060811
Sample Location: MSA-SW 44
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Type of Sample:
~~[X]~~ Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0950								
Depth: 1 Ft	—	8.92	1.14	29.6	9.39	9.16	0.1	123
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1300

MAP:

GPS Coordinates
39.32390
76.40459

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

Sample ID No.: MSA-SW44C-060811
Sample Location: MSA-SW44
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 1000								
Depth: 1ft								
Method: Grab	—	8.93	0.486	29.5	10.92	9.68	0.0	118

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1301

MAP:

GPS Coordinates
39.32412
76.40442

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW45A-060811
Sample Location: MSA-SW 45
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
[X] Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0920								
Depth: 1ft	—	7.26	0.935	27.1	17.2	9.22	0.0	152
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1253

MAP:

GPS Coordinates
39.32331
76.40337

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

Sample ID No.: MSA-SW458-060811
Sample Location: MSA-SW45
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0925								
Depth: 1 ft	—	8.93	0.915	29.0	12.5	10.39	0.0	120
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	✓
TCL SVOCs	None	2	1-liter glass	✓
Metals (total)	HNO_3 pH<2	1	500 ml plastic	✓
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	✓
Hexavalent chromium	None	1	250 ml plastic	✓
Perchlorate	None	1	250 ml plastic	✓

OBSERVATIONS / NOTES:

Cr^{+6} = 1255

MAP:

GPS Coordinates
39.32335
76.40320

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

Tetra Tech, Inc.

SURFACE WATER SAMPLE LOG SHEET

Project Site Name: Frog Mortar Creek, Martin State Airport
Project No.: 112IC03292 Middle River, Maryland

[] Stream
[] Spring
[] Pond
[] Lake
X Other: Tidal creek - estuarine
[] QA Sample Type:

Sample ID No.: MSA-SW45(-060811
Sample Location: MSA-SW 45
Sampled By: M.Bowersox/S.Cameron
C.O.C. No.:

Type of Sample:
X Low Concentration
[] High Concentration

SAMPLING DATA:

Date: 6/8/2011	Color (Visual)	pH (S.U.)	S.C. (mS/cm)	Temp. (°C)	Turbidity (NTU)	DO (mg/l)	Salinity (%)	Other ORP
Time: 0935								
Depth: 1ft	—	8.91	0.858	28.8	11.3	9.97	0.0	118
Method: Grab								

SAMPLE COLLECTION INFORMATION:

Analysis	Preservative	Qty.	Container Requirements	Collected
TCL VOCs	HCL pH<2	3	40 ml glass vial	
TCL SVOCs	None	2	1-liter glass	
Metals (total)	HNO_3 pH<2	1	500 ml plastic	
Metals (dissolved)	HNO_3 pH<2	1	500 ml plastic	
Hexavalent chromium	None	1	250 ml plastic	
Perchlorate	None	1	250 ml plastic	

OBSERVATIONS / NOTES:

$Cr^{+6} = 1.54$

MAP:

GPS Coordinates
39.32340
76.46306

Circle if Applicable:

MS/MSD	Duplicate ID No.:

Signature(s):

APPENDIX B—DATA-VALIDATION REPORTS (ON CD)

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **T. APANAVAGE** **DATE:** **JULY 18, 2011**

FROM: **A. COGNETTI** **COPIES:** **DV FILE**

SUBJECT: **ORGANIC DATA VALIDATION-**
VOLATILE ORGANIC COMPOUNDS/SEMI-VOLATILE ORGANIC COMPOUNDS
MSA- GROUNDWATER
FULL REVIEW
SAMPLE DELIVERY GROUP (SDG) 240-948-1

SAMPLES: 28/Aqueous/VOC/SVOC

MSA-SW37A-060811	MSA-SW37B-060811	MSA-SW37C-060811
MSA-SW38A-060811	MSA-SW38B-060811	MSA-SW38C-060811
MSA-SW39A-060811	MSA-SW39B-060811	MSA-SW39C-060811
MSA-SW40A-060811	MSA-SW40B-060811	MSA-SW40C-060811
MSA-SW41A-060811	MSA-SW41B-060811	MSA-SW41C-060811
MSA-SW42A-060811	MSA-SW42B-060811	MSA-SW42C-060811
MSA-SW43A-060811	MSA-SW43B-060811	MSA-SW43C-060811
MSA-SW44A-060811	MSA-SW44B-060811	MSA-SW44C-060811
MSA-SW45A-060811	MSA-SW45B-060811	MSA-SW45C-060811
TB-060811		

Overview

The sample set for MSA- Groundwater, SDG 240-948-1 consists of twenty seven (27) aqueous environmental samples analyzed for volatile organic compounds (VOCs) and semivolatile organic compound (SVOC). A trip blank, TB-060811, was also analyzed for VOCs.

The samples were collected on June 8, 2011 and analyzed by Test America Laboratories, Inc. Volatile organic compound analyses were conducted in accordance to SW-846 Method 8260B and SVOCs followed SW-846 Method 8270C.

Summary

The data contained in this SDG were validated with regard to the following parameters: data completeness, holding times, GC/MS tuning, initial/continuing calibrations, laboratory method blank results, surrogate spike recoveries, blank spike/blank spike duplicate results, matrix spike/matrix spike duplicate results, internal standard recoveries, chromatographic resolution, compound identification, compound quantitation and detection limits. Areas of concern with respect to data quality are listed below.

Major Problems

- In the initial calibration of instrument A3UX10 on June 14, 2011 and the continuing calibration on June 21, 2011 @ 22:41, tert-butyl alcohol and vinyl acetate had a mean relative response factor (RRF) less than the 0.05 quality control limit. The nondetected tert-butyl alcohol and vinyl acetate results in the affected samples were qualified as rejected (UR).

- In the initial calibration of instrument A3UX11 on June 21, 2011 and the continuing calibration on June 22, 2011 @ 12:58, tert-butyl alcohol had a mean relative response factor (RRF) less than the 0.05 quality control limit. The nondetected tert-butyl alcohol results in the affected samples were qualified as rejected (UR).

- The matrix spike/ matrix spike duplicate (MS/MSD) %R of 2-chloroethyl vinyl ether was 0% in spiked sample MSA-SW43C-060811. The nondetected 2-chloroethyl vinyl ether result in sample MSA-SW43C-060811 was qualified as rejected (UR).

Minor Problems

- The continuing calibration percent difference (%D) for trichlorofluoromethane was greater than 50% on June 21, 2011 @ 22:41 on instrument A3UX10. The nondetected trichlorofluoromethane results were qualified as estimated (UJ) in the affected samples MSA-SW40B-060811, MSA-SW40C-060811, MSA-SW42A-060811, MSA-SW42B-060811, MSA-SW42C-060811, MSA-SW37A-060811, MSA-SW37B-060811 and MSA-SW37C-060811.

- Several contaminants were detected in the semi-volatile fraction in both the laboratory method blanks.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Bis(2-ethylhexyl)phthalate[1]	0.974	9.74
Acetophenone[2]	0.427	2.14
Benzaldehyde[2]	0.496	2.48

(1) Laboratory method blank 240-4415/21-A analyzed on July 5, 2011 and extracted on June 11, 2011 affecting samples MSA-SW41A-060811, MSA-SW41C-060811, MSA-SW38A-060811, MSA-SW38B-060811, MSA-SW38C-060811, MSA-SW43A-060811, MSA-SW43B-060811, MSA-SW43C-060811, MSA-SW40A-060811, MSA-SW42C-060811, MSA-SW37A-060811, MSA-SW37B-060811, MSA-SW37C-060811, MSA-SW40B-060811, MSA-SW40C-060811, MSA-SW42A-060811, MSA-SW42B-060811, MSA-SW41B-060811 and dilution of sample MSA-SW42C-060811.
(2) Laboratory method blank 240-6848/20-A analyzed on July 6, 2011 affecting the re-extracted samples.

An action level was 10X the maximum concentration of bis(2-ethylhexyl)phthalate was used to evaluate samples due to blank contamination. An action level of 5X the maximum concentration of acetophenone and benzaldehyde were used to evaluate samples due to blank contamination. Positive results less than the action level were qualified (B) as a result of blank contamination. Sample aliquot and dilution factors were taken into consideration during the application of the blank action level for all samples.

- The laboratory control sample (LCS) associated with batch 240-4330/22-A had a percent recovery (%R) of several target SVOC analytes less than the lower quality control limit. The analytes were benzo(a)pyrene, benzo(g,h,i)perylene, di-n-octyl phthalate, dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene. The nondetected results of the aforementioned analytes were qualified as biased low (UL) in the affected samples MSA-SW39A-060811, MSA-SW39B-060811, MSA-SW39C-060811, MSA-SW45A-060811, MSA-SW45B-060811, MSA-SW45C-060811, MSA-SW44A-060811, MSA-SW44B-060811 and MSA-SW44C-060811.

- Positive results less than the reporting limit but greater than the method detection limit were qualified as estimated (J).

Notes

In the continuing calibration on June 21, 2011 @ 22:41 on instrument A3UX10, several target analytes had %Ds greater than the 20% quality control limit but less than 50%. No action was warranted on the nondetected results of the affected compounds in the associated samples MSA-SW40B-060811, MSA-SW40C-060811, MSA-SW42A-060811, MSA-SW42B-060811, MSA-SW42C-060811, MSA-SW37A-060811, MSA-SW37B-060811 and MSA-SW37C-060811.

Contaminants were detected in the VOC laboratory method blank 240-5551/5 analyzed on June 21, 2011 on instrument A3UX10.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Naphthalene	0.691	3.455
1,2,3-trichlorobenzene	0.349	1.745

An action level of 5X the maximum concentration of contaminant was used to evaluate samples due to blank contamination. Sample aliquot and dilution factors were taken into account in validation of data. No action was warranted on the nondetected naphthalene and 1,2,3-trichlorobenzene results in the affected samples MSA-SW40B-060811, MSA-SW40C-060811, MSA-SW42A-060811, MSA-SW42B-060811, MSA-SW42C-060811, MSA-SW37A-060811, MSA-SW37B-060811 and MSA-SW37C-060811.

The LCS associated with batch 240-5551/4 had a %R of trichlorofluoromethane greater than the upper quality control limit. No action was warranted on the nondetected trichlorofluoromethane results in the affected samples.

The LCS associated with batch 240-4330/22-A had a %R of benzaldehyde greater than the upper quality control limit. No action was taken on the nondetected benzaldehyde results in the affected samples.

In the initial calibration of instrument A4AG2 on June 27, 2011 the percent relative standard deviation (%RSD) for 2,4-dinitrophenol was greater than the 15% quality control limit but less than 50%. No action was taken on the nondetected 2,4-dinitrophenol results in the affected samples.

In the continuing calibration of instrument A4AG2 on June 29, 2011 @ 12:59, 2-nitroaniline and 4-nitrophenol had %Ds greater than the 20% quality control limit but less than 50%. No action was warranted on the nondetected 2-nitroanailine and 4-nitrophenol results in the affected samples.

In the continuing calibration of instrument A4AG2 on July 5, 2011 @ 11:41, 1,4-dioxane, benzaldyde, 2,4-dinitrophenol and 4-nitrophenol had %Ds greater than the 20% quality control limit but less than 50%. No action was warranted on the nondetected results of the aforementioned analytes in the affected samples.

Nondetected results were reported to the method detection limit on the electronic deliverable device. The form 1s for each sample lists both the reporting limit and method detection limit, but reports nondetected results to the reporting limit.

Notes

In the continuing calibration on June 21, 2011 @ 22:41 on instrument A3UX10, several target analytes had %Ds greater than the 20% quality control limit but less than 50%. No action was warranted on the nondetected results of the affected compounds in the associated samples MSA-SW40B-060811, MSA-SW40C-060811, MSA-SW42A-060811, MSA-SW42B-060811, MSA-SW42C-060811, MSA-SW37A-060811, MSA-SW37B-060811 and MSA-SW37C-060811.

Contaminants were detected in the VOC laboratory method blank 240-5551/5 analyzed on June 21, 2011 on instrument A3UX10.

Contaminant	Maximum Concentration (ug/L)	Action Level (ug/L)
Naphthalene	0.691	3.455
1,2,3-trichlorobenzene	0.349	1.745

An action level of 5X the maximum concentration of contaminant was used to evaluate samples due to blank contamination. Sample aliquot and dilution factors were taken into account in validation of data. No action was warranted on the nondetected naphthalene and 1,2,3-trichlorobenzene results in the affected samples MSA-SW40B-060811, MSA-SW40C-060811, MSA-SW42A-060811, MSA-SW42B-060811, MSA-SW42C-060811, MSA-SW37A-060811, MSA-SW37B-060811 and MSA-SW37C-060811.

The LCS associated with batch 240-5551/4 had a %R of trichlorofluoromethane greater than the upper quality control limit. No action was warranted on the nondetected trichlorofluoromethane results in the affected samples.

The LCS associated with batch 240-4330/22-A had a %R of benzaldehyde greater than the upper quality control limit. No action was taken on the nondetected benzaldehyde results in the affected samples.

In the initial calibration of instrument A4AG2 on June 27, 2011 the percent relative standard deviation (%RSD) for 2,4-dinitrophenol was greater than the 15% quality control limit but less than 50%. No action was taken on the nondetected 2,4-dinitrophenol results in the affected samples.

In the continuing calibration of instrument A4AG2 on June 29, 2011 @ 12:59, 2-nitroaniline and 4-nitrophenol had %Ds greater than the 20% quality control limit but less than 50%. No action was warranted on the nondetected 2-nitroanailine and 4-nitrophenol results in the affected samples.

In the continuing calibration of instrument A4AG2 on July 5, 2011 @ 11:41, 1,4-dioxane, benzaldyde, 2,4-dinitrophenol and 4-nitrophenol had %Ds greater than the 20% quality control limit but less than 50%. No action was warranted on the nondetected results of the aforementioned analytes in the affected samples.

Some samples were re-extracted and re-analyzed in the SVOC fraction due to noncompliant LCS recoveries. The samples were extracted outside of holding time. The data validator selected the original sample results for validation and reporting purposes.

Nondetected results were reported to the method detection limit on the electronic deliverable device. The form 1s for each sample lists both the reporting limit and method detection limit, but reports nondetected results to the reporting limit.

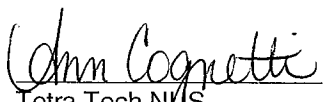
EXECUTIVE SUMMARY

Laboratory Performance Issues: Tert-butyl alcohol and vinyl acetate had a RRF less than quality control limits in the initial and continuing calibrations resulting in the rejection of data. The continuing calibration %D for trichlorofluoromethane was greater than 50% resulting in the qualification of nondetected results in the affected samples. Bis(2-ethylhexyl)phthalate was detected in a laboratory method blank in the SVOC fraction. The LCS associated with batch 240-4330/22-A had a %R of several target SVOC analytes less than the lower quality control limit.

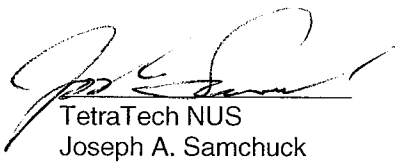
Other Factors Affecting Data Quality: The MS/MSD %R of 2-chloroethyl vinyl ether in spiked sample MSA-SW43C-060811 was 0% resulting in the rejection of the nondetected result.

The data for these analyses were reviewed with reference to the Region III EPA Functional Guidelines for Organic Data Validation (9/94), and the Department of Defense (DoD) document entitled "Quality Systems Manual (QSM) for Environmental Laboratories" (April 2009).

The text of this report has been formulated to address only those problem areas affecting data quality.



Tetra Tech NUS
Ann Cognetti
Chemist/Data Validator



TetraTech NUS
Joseph A. Samchuck
Data Validation Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Appendix A

Qualified Analytical Results

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: C03292	NSAMPLE	MSA-SW37A-060811			MSA-SW37B-060811			MSA-SW37C-060811			MSA-SW38A-060811		
SDG: 240-948-1	LAB_ID	240-948-26			240-948-27			240-948-28			240-948-14		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	U		0.57	U		0.57	U		0.57	U	
2-CHLOROETHYL VINYL ETHER		0.99	U		0.99	U		0.99	U		0.99	U	
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.3	J	P	1.4	J	P	1.1	U		1.7	J	P
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW38B-060811			MSA-SW38C-060811			MSA-SW39A-060811			MSA-SW39B-060811		
SDG: 240-948-1	LAB_ID	240-948-15			240-948-16			240-948-2			240-948-3		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	U		0.57	U		0.57	U		0.57	U	
2-CHLOROETHYL VINYL ETHER		0.99	U		0.99	U		0.99	U		0.99	U	
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		2.3	J	P	1.7	J	P	1.5	J	P	1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW39C-060811			MSA-SW40A-060811			MSA-SW40B-060811			MSA-SW40C-060811		
SDG: 240-948-1	LAB_ID	240-948-4			240-948-20			240-948-21			240-948-22		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	U		0.57	U		0.57	U		0.57	U	
2-CHLOROETHYL VINYL ETHER		0.99	U		0.99	U		0.99	U		0.99	U	
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.5	J	P	1.1	J	P	2.1	J	P	4.4	J	P
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW41A-060811			MSA-SW41B-060811			MSA-SW41C-060811			MSA-SW42A-060811		
SDG: 240-948-1	LAB_ID	240-948-11			240-948-12			240-948-13			240-948-23		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	U		0.57	U		0.57	U		0.57	U	
2-CHLOROETHYL VINYL ETHER		0.99	U		0.99	U		0.99	U		0.99	U	
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.7	J	P	1.5	J	P	1.3	J	P	1.6	J	P
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW42B-060811			MSA-SW42C-060811			MSA-SW43A-060811			MSA-SW43B-060811		
SDG: 240-948-1	LAB_ID	240-948-24			240-948-25			240-948-17			240-948-18		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	U		0.57	U		0.57	U		0.57	U	
2-CHLOROETHYL VINYL ETHER		0.99	U		0.99	U		0.99	U		0.99	U	
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.2	J	P	1.3	J	P	1.1	U		1.1	J	P
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW43C-060811			MSA-SW44A-060811			MSA-SW44B-060811			MSA-SW44C-060811		
SDG: 240-948-1	LAB_ID	240-948-19			240-948-8			240-948-9			240-948-10		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	U		0.57	U		0.57	U		0.57	U	
2-CHLOROETHYL VINYL ETHER		0.99	UR	C	0.99	U		0.99	U		0.99	U	
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.1	U		1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW45A-060811			MSA-SW45B-060811			MSA-SW45C-060811			TB-060811		
SDG: 240-948-1	LAB_ID	240-948-5			240-948-6			240-948-7			240-948-1		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1,1,2-TETRACHLOROETHANE		0.23	U		0.23	U		0.23	U		0.23	U	
1,1,1-TRICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,1,2,2-TETRACHLOROETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,1,2-TRICHLOROTRIFLUOROETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
1,1-DICHLOROETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
1,1-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
1,1-DICHLOROPROPENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2,3-TRICHLOROBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
1,2,3-TRICHLOROPROPANE		0.43	U		0.43	U		0.43	U		0.43	U	
1,2,3-TRIMETHYLBENZENE		0.0059	U		0.0059	U		0.0059	U		0.0059	U	
1,2,4-TRICHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
1,2,4-TRIMETHYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
1,2-DIBROMO-3-CHLOROPROPANE		0.67	U		0.67	U		0.67	U		0.67	U	
1,2-DIBROMOETHANE		0.24	U		0.24	U		0.24	U		0.24	U	
1,2-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
1,2-DICHLOROETHANE		0.22	U		0.22	U		0.22	U		0.22	U	
1,2-DICHLOROPROPANE		0.18	U		0.18	U		0.18	U		0.18	U	
1,3-DICHLOROBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
1,3-DICHLOROPROPANE		0.16	U		0.16	U		0.16	U		0.16	U	
1,4-DICHLOROBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
2,2-DICHLOROPROPANE		0.13	U		0.13	U		0.13	U		0.13	U	
2-BUTANONE		0.57	U		0.57	U		0.57	U		0.57	U	
2-CHLOROETHYL VINYL ETHER		0.99	U		0.99	U		0.99	U		0.99	U	
2-CHLOROTOLUENE		0.11	U		0.11	U		0.11	U		0.11	U	
2-HEXANONE		0.41	U		0.41	U		0.41	U		0.41	U	
4-CHLOROTOLUENE		0.18	U		0.18	U		0.18	U		0.18	U	
4-ISOPROPYLTOLUENE		0.12	U		0.12	U		0.12	U		0.12	U	
4-METHYL-2-PENTANONE		0.32	U		0.32	U		0.32	U		0.32	U	
ACETONE		1.1	U		1.1	U		1.1	U		1.1	U	
BENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
BROMOCHLOROMETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
BROMODICHLOROMETHANE		0.15	U		0.15	U		0.15	U		0.15	U	
BROMOFORM		0.64	U		0.64	U		0.64	U		0.64	U	
BROMOMETHANE		0.41	U		0.41	U		0.41	U		0.41	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW37A-060811			MSA-SW37B-060811			MSA-SW37C-060811			MSA-SW38A-060811		
SDG: 240-948-1	LAB_ID	240-948-26			240-948-27			240-948-28			240-948-14		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.35	J	P	0.53	J	P	0.17	U		2.3		
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	UR	C	3.9	UR	C	3.9	UR	C	3.9	UR	C
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		0.48	J	P	0.58	J	P	0.68	J	P	1.7		
TRICHLOROFLUOROMETHANE		0.21	UJ	C	0.21	UJ	C	0.21	UJ	C	0.21	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW38B-060811			MSA-SW38C-060811			MSA-SW39A-060811			MSA-SW39B-060811		
SDG: 240-948-1	LAB_ID	240-948-15			240-948-16			240-948-2			240-948-3		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		1.1			0.61	J	P	0.17	U		0.17	U	
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	UR	C	3.9	UR	C	3.9	UR	C	3.9	UR	C
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		1.5			0.87	J	P	0.17	U		0.19	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW39C-060811			MSA-SW40A-060811			MSA-SW40B-060811			MSA-SW40C-060811		
SDG: 240-948-1	LAB_ID	240-948-4			240-948-20			240-948-21			240-948-22		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.17	U		1.2			1			0.49	J	P
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	UR	C	3.9	UR	C	3.9	UR	C	3.9	UR	C
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		0.17	U		1.4			1.3			0.73	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	UJ	C	0.21	UJ	C

PROJ_NO: C03292	NSAMPLE	MSA-SW41A-060811			MSA-SW41B-060811			MSA-SW41C-060811			MSA-SW42A-060811		
SDG: 240-948-1	LAB_ID	240-948-11			240-948-12			240-948-13			240-948-23		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		1.3			0.87	J	P	0.55	J	P	0.86	J	P
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	UR	C	3.9	UR	C	3.9	UR	C	3.9	UR	C
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.17	J	P
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		1.4			1.1			0.58	J	P	0.6	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	UJ	C

PROJ_NO: C03292	NSAMPLE	MSA-SW42B-060811			MSA-SW42C-060811			MSA-SW43A-060811			MSA-SW43B-060811		
SDG: 240-948-1	LAB_ID	240-948-24			240-948-25			240-948-17			240-948-18		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.49	J	P	0.51	J	P	0.91	J	P	0.95	J	P
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	UR	C	3.9	UR	C	3.9	UR	C	3.9	UR	C
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		0.66	J	P	0.7	J	P	1.3			1.2		
TRICHLOROFLUOROMETHANE		0.21	UJ	C	0.21	UJ	C	0.21	U		0.21	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW43C-060811			MSA-SW44A-060811			MSA-SW44B-060811			MSA-SW44C-060811		
SDG: 240-948-1	LAB_ID	240-948-19			240-948-8			240-948-9			240-948-10		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.51	J	P	0.6	J	P	0.26	J	P	0.28	J	P
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	UR	C	3.9	UR	C	3.9	UR	C	3.9	UR	C
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		0.82	J	P	0.92	J	P	0.41	J	P	0.37	J	P
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW45A-060811			MSA-SW45B-060811			MSA-SW45C-060811			TB-060811		
SDG: 240-948-1	LAB_ID	240-948-5			240-948-6			240-948-7			240-948-1		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
CARBON DISULFIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CARBON TETRACHLORIDE		0.13	U		0.13	U		0.13	U		0.13	U	
CHLOROBENZENE		0.15	U		0.15	U		0.15	U		0.15	U	
CHLORODIBROMOMETHANE		0.18	U		0.18	U		0.18	U		0.18	U	
CHLOROETHANE		0.29	U		0.29	U		0.29	U		0.29	U	
CHLOROFORM		0.16	U		0.16	U		0.16	U		0.16	U	
CHLOROMETHANE		0.3	U		0.3	U		0.3	U		0.3	U	
CIS-1,2-DICHLOROETHENE		0.17	U		0.17	U		0.17	U		0.17	U	
CIS-1,3-DICHLOROPROPENE		0.14	U		0.14	U		0.14	U		0.14	U	
DIBROMOMETHANE		0.28	U		0.28	U		0.28	U		0.28	U	
DICHLORODIFLUOROMETHANE		0.31	U		0.31	U		0.31	U		0.31	U	
DIISOPROPYL ETHER		1.5	U		1.5	U		1.5	U		1.5	U	
ETHYL TERT-BUTYL ETHER		0.11	U		0.11	U		0.11	U		0.11	U	
ETHYLBENZENE		0.17	U		0.17	U		0.17	U		0.17	U	
HEXACHLOROBUTADIENE		0.3	U		0.3	U		0.3	U		0.3	U	
ISOPROPYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
M+P-XYLENES		0.24	U		0.24	U		0.24	U		0.24	U	
METHYL TERT-BUTYL ETHER		0.17	U		0.17	U		0.17	U		0.17	U	
METHYLENE CHLORIDE		0.33	U		0.33	U		0.33	U		0.33	U	
NAPHTHALENE		0.24	U		0.24	U		0.24	U		0.24	U	
N-BUTYLBENZENE		0.12	U		0.12	U		0.12	U		0.12	U	
N-PROPYLBENZENE		0.14	U		0.14	U		0.14	U		0.14	U	
O-XYLENE		0.14	U		0.14	U		0.14	U		0.14	U	
SEC-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
STYRENE		0.11	U		0.11	U		0.11	U		0.11	U	
TERT-AMYL METHYL ETHER		0.067	U		0.067	U		0.067	U		0.067	U	
TERT-BUTYLBENZENE		0.13	U		0.13	U		0.13	U		0.13	U	
TERTIARY-BUTYL ALCOHOL		3.9	UR	C	3.9	UR	C	3.9	UR	C	3.9	UR	C
TETRACHLOROETHENE		0.29	U		0.29	U		0.29	U		0.29	U	
TOLUENE		0.13	U		0.13	U		0.13	U		0.13	U	
TOTAL XYLENES		0.28	U		0.28	U		0.28	U		0.28	U	
TRANS-1,2-DICHLOROETHENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRANS-1,3-DICHLOROPROPENE		0.19	U		0.19	U		0.19	U		0.19	U	
TRICHLOROETHENE		0.28	J	P	0.24	J	P	0.24	J	P	0.17	U	
TRICHLOROFLUOROMETHANE		0.21	U		0.21	U		0.21	U		0.21	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW37A-060811			MSA-SW37B-060811			MSA-SW37C-060811			MSA-SW38A-060811		
SDG: 240-948-1	LAB_ID	240-948-26			240-948-27			240-948-28			240-948-14		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	UR	C	0.19	U	
VINYL CHLORIDE		0.22	U		0.42	J	P	0.22	U		1.4		

PROJ_NO: C03292	NSAMPLE	MSA-SW38B-060811			MSA-SW38C-060811			MSA-SW39A-060811			MSA-SW39B-060811		
SDG: 240-948-1	LAB_ID	240-948-15			240-948-16			240-948-2			240-948-3		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.42	J	P	0.22	U		0.22	U		0.22	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW39C-060811			MSA-SW40A-060811			MSA-SW40B-060811			MSA-SW40C-060811		
SDG: 240-948-1	LAB_ID	240-948-4			240-948-20			240-948-21			240-948-22		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	U		0.19	U		0.19	UR	C	0.19	UR	C
VINYL CHLORIDE		0.22	U		0.22	U		0.58	J	P	0.22	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW41A-060811			MSA-SW41B-060811			MSA-SW41C-060811			MSA-SW42A-060811		
SDG: 240-948-1	LAB_ID	240-948-11			240-948-12			240-948-13			240-948-23		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	UR	C
VINYL CHLORIDE		0.22	U		0.22	U		0.22	U		1.2		

PROJ_NO: C03292	NSAMPLE	MSA-SW42B-060811			MSA-SW42C-060811			MSA-SW43A-060811			MSA-SW43B-060811		
SDG: 240-948-1	LAB_ID	240-948-24			240-948-25			240-948-17			240-948-18		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	UR	C	0.19	UR	C	0.19	U		0.19	U	
VINYL CHLORIDE		0.22	U		0.22	U		0.22	U		0.22	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW43C-060811			MSA-SW44A-060811			MSA-SW44B-060811			MSA-SW44C-060811		
SDG: 240-948-1	LAB_ID	240-948-19			240-948-8			240-948-9			240-948-10		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.22	U		0.22	U		0.22	U		0.22	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW45A-060811			MSA-SW45B-060811			MSA-SW45C-060811			TB-060811		
SDG: 240-948-1	LAB_ID	240-948-5			240-948-6			240-948-7			240-948-1		
FRACTION: OV	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
VINYL ACETATE		0.19	U		0.19	U		0.19	U		0.19	U	
VINYL CHLORIDE		0.22	U		0.22	U		0.22	U		0.22	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW37A-060811			MSA-SW37B-060811			MSA-SW37C-060811			MSA-SW38A-060811		
SDG: 240-948-1	LAB_ID	240-948-26			240-948-27			240-948-28			240-948-14		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		0.76	U		0.76	U		0.76	U		0.77	U	
1,4-DIOXANE		0.47	U		0.47	U		0.47	U		0.47	U	
2,2'-OXYBIS(1-CHLOROPROPANE)		0.38	U		0.38	U		0.38	U		0.38	U	
2,4,5-TRICHLOROPHENOL		0.29	U		0.29	U		0.29	U		0.29	U	
2,4,6-TRICHLOROPHENOL		0.76	U		0.76	U		0.76	U		0.77	U	
2,4-DICHLOROPHENOL		0.76	U		0.76	U		0.76	U		0.77	U	
2,4-DIMETHYLPHENOL		0.76	U		0.76	U		0.76	U		0.77	U	
2,4-DINITROPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
2,4-DINITROTOLUENE		0.26	U		0.26	U		0.26	U		0.26	U	
2,6-DINITROTOLUENE		0.76	U		0.76	U		0.76	U		0.77	U	
2-CHLORONAPHTHALENE		0.095	U		0.095	U		0.095	U		0.096	U	
2-CHLOROPHENOL		0.28	U		0.28	U		0.28	U		0.28	U	
2-METHYLNAPHTHALENE		0.095	U		0.095	U		0.095	U		0.096	U	
2-METHYLPHENOL		0.76	U		0.76	U		0.76	U		0.77	U	
2-NITROANILINE		0.76	U		0.76	U		0.76	U		0.77	U	
2-NITROPHENOL		0.27	U		0.27	U		0.27	U		0.27	U	
3&4-METHYLPHENOL		0.71	U		0.71	U		0.71	U		0.72	U	
3,3'-DICHLOROBENZIDINE		0.35	U		0.35	U		0.35	U		0.36	U	
3-NITROANILINE		0.27	U		0.27	U		0.27	U		0.27	U	
4,6-DINITRO-2-METHYLPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
4-BROMOPHENYL PHENYL ETHER		0.76	U		0.76	U		0.76	U		0.77	U	
4-CHLORO-3-METHYLPHENOL		0.76	U		0.76	U		0.76	U		0.77	U	
4-CHLOROANILINE		0.76	U		0.76	U		0.76	U		0.77	U	
4-CHLOROPHENYL PHENYL ETHER		0.29	U		0.29	U		0.29	U		0.29	U	
4-NITROANILINE		0.76	U		0.76	U		0.76	U		0.77	U	
4-NITROPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
ACENAPHTHENE		0.095	U		0.095	U		0.095	U		0.096	U	
ACENAPHTHYLENE		0.095	U		0.095	U		0.095	U		0.096	U	
ACETOPHENONE		0.32	U		0.32	U		0.32	U		0.33	U	
ANTHRACENE		0.095	U		0.095	U		0.095	U		0.096	U	
ATRAZINE		0.32	U		0.32	U		0.32	U		0.33	U	
BENZALDEHYDE		0.37	U		0.37	U		0.37	U		0.37	U	
BENZO(A)ANTHRACENE		0.095	U		0.095	U		0.095	U		0.096	U	
BENZO(A)PYRENE		0.095	U		0.095	U		0.095	U		0.096	U	
BENZO(B)FLUORANTHENE		0.095	U		0.095	U		0.095	U		0.096	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW38B-060811			MSA-SW38C-060811			MSA-SW39A-060811			MSA-SW39B-060811		
SDG: 240-948-1	LAB_ID	240-948-15			240-948-16			240-948-2			240-948-3		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		0.77	U		0.76	U		0.76	U		0.76	U	
1,4-DIOXANE		0.47	U		0.47	U		0.47	U		0.47	U	
2,2'-OXYBIS(1-CHLOROPROPANE)		0.38	U		0.38	U		0.38	U		0.38	U	
2,4,5-TRICHLOROPHENOL		0.29	U		0.29	U		0.29	U		0.29	U	
2,4,6-TRICHLOROPHENOL		0.77	U		0.76	U		0.76	U		0.76	U	
2,4-DICHLOROPHENOL		0.77	U		0.76	U		0.76	U		0.76	U	
2,4-DIMETHYLPHENOL		0.77	U		0.76	U		0.76	U		0.76	U	
2,4-DINITROPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
2,4-DINITROTOLUENE		0.26	U		0.26	U		0.26	U		0.26	U	
2,6-DINITROTOLUENE		0.77	U		0.76	U		0.76	U		0.76	U	
2-CHLORONAPHTHALENE		0.096	U		0.095	U		0.095	U		0.095	U	
2-CHLOROPHENOL		0.28	U		0.28	U		0.28	U		0.28	U	
2-METHYLNAPHTHALENE		0.096	U		0.095	U		0.095	U		0.095	U	
2-METHYLPHENOL		0.77	U		0.76	U		0.76	U		0.76	U	
2-NITROANILINE		0.77	U		0.76	U		0.76	U		0.76	U	
2-NITROPHENOL		0.27	U		0.27	U		0.27	U		0.27	U	
3&4-METHYLPHENOL		0.72	U		0.71	U		0.71	U		0.71	U	
3,3'-DICHLOROBENZIDINE		0.36	U		0.35	U		0.35	U		0.35	U	
3-NITROANILINE		0.27	U		0.27	U		0.27	U		0.27	U	
4,6-DINITRO-2-METHYLPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
4-BROMOPHENYL PHENYL ETHER		0.77	U		0.76	U		0.76	U		0.76	U	
4-CHLORO-3-METHYLPHENOL		0.77	U		0.76	U		0.76	U		0.76	U	
4-CHLOROANILINE		0.77	U		0.76	U		0.76	U		0.76	U	
4-CHLOROPHENYL PHENYL ETHER		0.29	U		0.29	U		0.29	U		0.29	U	
4-NITROANILINE		0.77	U		0.76	U		0.76	U		0.76	U	
4-NITROPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
ACENAPHTHENE		0.096	U		0.095	U		0.095	U		0.095	U	
ACENAPHTHYLENE		0.096	U		0.095	U		0.095	U		0.095	U	
ACETOPHENONE		0.33	U		0.32	U		0.32	U		0.32	U	
ANTHRACENE		0.096	U		0.095	U		0.095	U		0.095	U	
ATRAZINE		0.33	U		0.32	U		0.32	U		0.32	U	
BENZALDEHYDE		0.37	U		0.37	U		0.37	U		0.37	U	
BENZO(A)ANTHRACENE		0.096	U		0.095	U		0.095	U		0.095	U	
BENZO(A)PYRENE		0.096	U		0.095	U		0.095	UL	E	0.095	UL	E
BENZO(B)FLUORANTHENE		0.096	U		0.095	U		0.095	U		0.095	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW39C-060811			MSA-SW40A-060811			MSA-SW40B-060811			MSA-SW40C-060811		
SDG: 240-948-1	LAB_ID	240-948-4			240-948-20			240-948-21			240-948-22		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		0.76	U		0.76	U		0.76	U		0.76	U	
1,4-DIOXANE		0.47	U		0.47	U		0.47	U		0.47	U	
2,2'-OXYBIS(1-CHLOROPROPANE)		0.38	U		0.38	U		0.38	U		0.38	U	
2,4,5-TRICHLOROPHENOL		0.29	U		0.29	U		0.29	U		0.29	U	
2,4,6-TRICHLOROPHENOL		0.76	U		0.76	U		0.76	U		0.76	U	
2,4-DICHLOROPHENOL		0.76	U		0.76	U		0.76	U		0.76	U	
2,4-DIMETHYLPHENOL		0.76	U		0.76	U		0.76	U		0.76	U	
2,4-DINITROPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
2,4-DINITROTOLUENE		0.26	U		0.26	U		0.26	U		0.26	U	
2,6-DINITROTOLUENE		0.76	U		0.76	U		0.76	U		0.76	U	
2-CHLORONAPHTHALENE		0.095	U		0.095	U		0.095	U		0.095	U	
2-CHLOROPHENOL		0.28	U		0.28	U		0.28	U		0.28	U	
2-METHYLNAPHTHALENE		0.095	U		0.095	U		0.095	U		0.095	U	
2-METHYLPHENOL		0.76	U		0.76	U		0.76	U		0.76	U	
2-NITROANILINE		0.76	U		0.76	U		0.76	U		0.76	U	
2-NITROPHENOL		0.27	U		0.27	U		0.27	U		0.27	U	
3&4-METHYLPHENOL		0.71	U		0.71	U		0.71	U		0.71	U	
3,3'-DICHLOROBENZIDINE		0.35	U		0.35	U		0.35	U		0.35	U	
3-NITROANILINE		0.27	U		0.27	U		0.27	U		0.27	U	
4,6-DINITRO-2-METHYLPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
4-BROMOPHENYL PHENYL ETHER		0.76	U		0.76	U		0.76	U		0.76	U	
4-CHLORO-3-METHYLPHENOL		0.76	U		0.76	U		0.76	U		0.76	U	
4-CHLOROANILINE		0.76	U		0.76	U		0.76	U		0.76	U	
4-CHLOROPHENYL PHENYL ETHER		0.29	U		0.29	U		0.29	U		0.29	U	
4-NITROANILINE		0.76	U		0.76	U		0.76	U		0.76	U	
4-NITROPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
ACENAPHTHENE		0.095	U		0.095	U		0.095	U		0.095	U	
ACENAPHTHYLENE		0.095	U		0.095	U		0.095	U		0.095	U	
ACETOPHENONE		0.32	U		0.32	U		0.32	U		0.32	U	
ANTHRACENE		0.095	U		0.095	U		0.095	U		0.095	U	
ATRAZINE		0.32	U		0.32	U		0.32	U		0.32	U	
BENZALDEHYDE		0.37	U		0.37	U		0.37	U		0.37	U	
BENZO(A)ANTHRACENE		0.095	U		0.095	U		0.095	U		0.095	U	
BENZO(A)PYRENE		0.095	UL	E	0.095	U		0.095	U		0.095	U	
BENZO(B)FLUORANTHENE		0.095	U		0.095	U		0.095	U		0.095	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW41A-060811			MSA-SW41B-060811			MSA-SW41C-060811			MSA-SW42A-060811		
SDG: 240-948-1	LAB_ID	240-948-11			240-948-12			240-948-13			240-948-23		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL	0.76	U		0.77	U		0.77	U		0.76	U	
1,4-DIOXANE	0.47	U		0.47	U		0.47	U		0.47	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.38	U		0.38	U		0.38	U		0.38	U	
2,4,5-TRICHLOROPHENOL	0.29	U		0.29	U		0.29	U		0.29	U	
2,4,6-TRICHLOROPHENOL	0.76	U		0.77	U		0.77	U		0.76	U	
2,4-DICHLOROPHENOL	0.76	U		0.77	U		0.77	U		0.76	U	
2,4-DIMETHYLPHENOL	0.76	U		0.77	U		0.77	U		0.76	U	
2,4-DINITROPHENOL	2.3	U		2.3	U		2.3	U		2.3	U	
2,4-DINITROTOLUENE	0.26	U		0.26	U		0.26	U		0.26	U	
2,6-DINITROTOLUENE	0.76	U		0.77	U		0.77	U		0.76	U	
2-CHLORONAPHTHALENE	0.095	U		0.096	U		0.096	U		0.095	U	
2-CHLOROPHENOL	0.28	U		0.28	U		0.28	U		0.28	U	
2-METHYLNAPHTHALENE	0.095	U		0.096	U		0.096	U		0.095	U	
2-METHYLPHENOL	0.76	U		0.77	U		0.77	U		0.76	U	
2-NITROANILINE	0.76	U		0.77	U		0.77	U		0.76	U	
2-NITROPHENOL	0.27	U		0.27	U		0.27	U		0.27	U	
3&4-METHYLPHENOL	0.71	U		0.72	U		0.72	U		0.71	U	
3,3'-DICHLOROBENZIDINE	0.35	U		0.36	U		0.36	U		0.35	U	
3-NITROANILINE	0.27	U		0.27	U		0.27	U		0.27	U	
4,6-DINITRO-2-METHYLPHENOL	2.3	U		2.3	U		2.3	U		2.3	U	
4-BROMOPHENYL PHENYL ETHER	0.76	U		0.77	U		0.77	U		0.76	U	
4-CHLORO-3-METHYLPHENOL	0.76	U		0.77	U		0.77	U		0.76	U	
4-CHLOROANILINE	0.76	U		0.77	U		0.77	U		0.76	U	
4-CHLOROPHENYL PHENYL ETHER	0.29	U		0.29	U		0.29	U		0.29	U	
4-NITROANILINE	0.76	U		0.77	U		0.77	U		0.76	U	
4-NITROPHENOL	2.3	U		2.3	U		2.3	U		2.3	U	
ACENAPHTHENE	0.095	U		0.096	U		0.096	U		0.095	U	
ACENAPHTHYLENE	0.095	U		0.096	U		0.096	U		0.095	U	
ACETOPHENONE	0.32	U		0.33	U		0.33	U		0.32	U	
ANTHRACENE	0.095	U		0.096	U		0.096	U		0.095	U	
ATRAZINE	0.32	U		0.33	U		0.33	U		0.32	U	
BENZALDEHYDE	0.37	U		0.37	U		0.37	U		0.37	U	
BENZO(A)ANTHRACENE	0.095	U		0.096	U		0.096	U		0.095	U	
BENZO(A)PYRENE	0.095	U		0.096	U		0.096	U		0.095	U	
BENZO(B)FLUORANTHENE	0.095	U		0.096	U		0.096	U		0.095	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW42B-060811			MSA-SW42C-060811			MSA-SW42C-060811DL			MSA-SW43A-060811		
SDG: 240-948-1	LAB_ID	240-948-24			240-948-25			240-948-25			240-948-17		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL		0.77	U		0.78	U					0.76	U	
1,4-DIOXANE		0.47	U		0.48	U					0.47	U	
2,2'-OXYBIS(1-CHLOROPROPANE)		0.38	U		0.39	U					0.38	U	
2,4,5-TRICHLOROPHENOL		0.29	U		0.29	U					0.29	U	
2,4,6-TRICHLOROPHENOL		0.77	U		0.78	U					0.76	U	
2,4-DICHLOROPHENOL		0.77	U		0.78	U					0.76	U	
2,4-DIMETHYLPHENOL		0.77	U		0.78	U					0.76	U	
2,4-DINITROPHENOL		2.3	U		2.3	U					2.3	U	
2,4-DINITROTOLUENE		0.26	U		0.26	U					0.26	U	
2,6-DINITROTOLUENE		0.77	U		0.78	U					0.76	U	
2-CHLORONAPHTHALENE		0.096	U		0.097	U					0.095	U	
2-CHLOROPHENOL		0.28	U		0.28	U					0.28	U	
2-METHYLNAPHTHALENE		0.096	U		0.097	U					0.095	U	
2-METHYLPHENOL		0.77	U		0.78	U					0.76	U	
2-NITROANILINE		0.77	U		0.78	U					0.76	U	
2-NITROPHENOL		0.27	U		0.27	U					0.27	U	
3&4-METHYLPHENOL		0.72	U		0.73	U					0.71	U	
3,3'-DICHLOROBENZIDINE		0.36	U		0.36	U					0.35	U	
3-NITROANILINE		0.27	U		0.27	U					0.27	U	
4,6-DINITRO-2-METHYLPHENOL		2.3	U		2.3	U					2.3	U	
4-BROMOPHENYL PHENYL ETHER		0.77	U		0.78	U					0.76	U	
4-CHLORO-3-METHYLPHENOL		0.77	U		0.78	U					0.76	U	
4-CHLOROANILINE		0.77	U		0.78	U					0.76	U	
4-CHLOROPHENYL PHENYL ETHER		0.29	U		0.29	U					0.29	U	
4-NITROANILINE		0.77	U		0.78	U					0.76	U	
4-NITROPHENOL		2.3	U		2.3	U					2.3	U	
ACENAPHTHENE		0.096	U		0.097	U					0.095	U	
ACENAPHTHYLENE		0.096	U		0.097	U					0.095	U	
ACETOPHENONE		0.33	U		0.33	U					0.32	U	
ANTHRACENE		0.096	U		0.097	U					0.095	U	
ATRAZINE		0.33	U		0.33	U					0.32	U	
BENZALDEHYDE		0.37	U		0.38	U					0.37	U	
BENZO(A)ANTHRACENE		0.096	U		0.097	U					0.095	U	
BENZO(A)PYRENE		0.096	U		0.097	U					0.095	U	
BENZO(B)FLUORANTHENE		0.096	U		0.097	U					0.095	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW43B-060811			MSA-SW43C-060811			MSA-SW44A-060811			MSA-SW44B-060811		
SDG: 240-948-1	LAB_ID	240-948-18			240-948-19			240-948-8			240-948-9		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL	0.77	U		0.77	U		0.76	U		0.76	U	
1,4-DIOXANE	0.47	U		0.47	U		0.47	U		0.47	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.38	U		0.38	U		0.38	U		0.38	U	
2,4,5-TRICHLOROPHENOL	0.29	U		0.29	U		0.29	U		0.29	U	
2,4,6-TRICHLOROPHENOL	0.77	U		0.77	U		0.76	U		0.76	U	
2,4-DICHLOROPHENOL	0.77	U		0.77	U		0.76	U		0.76	U	
2,4-DIMETHYLPHENOL	0.77	U		0.77	U		0.76	U		0.76	U	
2,4-DINITROPHENOL	2.3	U		2.3	U		2.3	U		2.3	U	
2,4-DINITROTOLUENE	0.26	U		0.26	U		0.26	U		0.26	U	
2,6-DINITROTOLUENE	0.77	U		0.77	U		0.76	U		0.76	U	
2-CHLORONAPHTHALENE	0.096	U		0.096	U		0.095	U		0.095	U	
2-CHLOROPHENOL	0.28	U		0.28	U		0.28	U		0.28	U	
2-METHYLNAPHTHALENE	0.096	U		0.096	U		0.095	U		0.095	U	
2-METHYLPHENOL	0.77	U		0.77	U		0.76	U		0.76	U	
2-NITROANILINE	0.77	U		0.77	U		0.76	U		0.76	U	
2-NITROPHENOL	0.27	U		0.27	U		0.27	U		0.27	U	
3&4-METHYLPHENOL	0.72	U		0.72	U		0.71	U		0.71	U	
3,3'-DICHLOROBENZIDINE	0.36	U		0.36	U		0.35	U		0.35	U	
3-NITROANILINE	0.27	U		0.27	U		0.27	U		0.27	U	
4,6-DINITRO-2-METHYLPHENOL	2.3	U		2.3	U		2.3	U		2.3	U	
4-BROMOPHENYL PHENYL ETHER	0.77	U		0.77	U		0.76	U		0.76	U	
4-CHLORO-3-METHYLPHENOL	0.77	U		0.77	U		0.76	U		0.76	U	
4-CHLOROANILINE	0.77	U		0.77	U		0.76	U		0.76	U	
4-CHLOROPHENYL PHENYL ETHER	0.29	U		0.29	U		0.29	U		0.29	U	
4-NITROANILINE	0.77	U		0.77	U		0.76	U		0.76	U	
4-NITROPHENOL	2.3	U		2.3	U		2.3	U		2.3	U	
ACENAPHTHENE	0.096	U		0.096	U		0.095	U		0.095	U	
ACENAPHTHYLENE	0.096	U		0.096	U		0.095	U		0.095	U	
ACETOPHENONE	0.33	U		0.33	U		0.32	U		0.32	U	
ANTHRACENE	0.096	U		0.096	U		0.095	U		0.095	U	
ATRAZINE	0.33	U		0.33	U		0.32	U		0.32	U	
BENZALDEHYDE	0.37	U		0.37	U		0.37	U		0.37	U	
BENZO(A)ANTHRACENE	0.096	U		0.096	U		0.095	U		0.095	U	
BENZO(A)PYRENE	0.096	U		0.096	U		0.095	UL	E	0.095	UL	E
BENZO(B)FLUORANTHENE	0.096	U		0.096	U		0.095	U		0.095	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW44C-060811			MSA-SW45A-060811			MSA-SW45B-060811			MSA-SW45C-060811		
SDG: 240-948-1	LAB_ID	240-948-10			240-948-5			240-948-6			240-948-7		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
1,1-BIPHENYL	0.76	U		0.76	U		0.76	U		0.76	U	
1,4-DIOXANE	0.47	U		0.47	U		0.47	U		0.47	U	
2,2'-OXYBIS(1-CHLOROPROPANE)	0.38	U		0.38	U		0.38	U		0.38	U	
2,4,5-TRICHLOROPHENOL	0.29	U		0.29	U		0.29	U		0.29	U	
2,4,6-TRICHLOROPHENOL	0.76	U		0.76	U		0.76	U		0.76	U	
2,4-DICHLOROPHENOL	0.76	U		0.76	U		0.76	U		0.76	U	
2,4-DIMETHYLPHENOL	0.76	U		0.76	U		0.76	U		0.76	U	
2,4-DINITROPHENOL	2.3	U		2.3	U		2.3	U		2.3	U	
2,4-DINITROTOLUENE	0.26	U		0.26	U		0.26	U		0.26	U	
2,6-DINITROTOLUENE	0.76	U		0.76	U		0.76	U		0.76	U	
2-CHLORONAPHTHALENE	0.095	U		0.095	U		0.095	U		0.095	U	
2-CHLOROPHENOL	0.28	U		0.28	U		0.28	U		0.28	U	
2-METHYLNAPHTHALENE	0.095	U		0.095	U		0.095	U		0.095	U	
2-METHYLPHENOL	0.76	U		0.76	U		0.76	U		0.76	U	
2-NITROANILINE	0.76	U		0.76	U		0.76	U		0.76	U	
2-NITROPHENOL	0.27	U		0.27	U		0.27	U		0.27	U	
3&4-METHYLPHENOL	0.71	U		0.71	U		0.71	U		0.71	U	
3,3'-DICHLOROBENZIDINE	0.35	U		0.35	U		0.35	U		0.35	U	
3-NITROANILINE	0.27	U		0.27	U		0.27	U		0.27	U	
4,6-DINITRO-2-METHYLPHENOL	2.3	U		2.3	U		2.3	U		2.3	U	
4-BROMOPHENYL PHENYL ETHER	0.76	U		0.76	U		0.76	U		0.76	U	
4-CHLORO-3-METHYLPHENOL	0.76	U		0.76	U		0.76	U		0.76	U	
4-CHLOROANILINE	0.76	U		0.76	U		0.76	U		0.76	U	
4-CHLOROPHENYL PHENYL ETHER	0.29	U		0.29	U		0.29	U		0.29	U	
4-NITROANILINE	0.76	U		0.76	U		0.76	U		0.76	U	
4-NITROPHENOL	2.3	U		2.3	U		2.3	U		2.3	U	
ACENAPHTHENE	0.095	U		0.095	U		0.095	U		0.095	U	
ACENAPHTHYLENE	0.095	U		0.095	U		0.095	U		0.095	U	
ACETOPHENONE	0.32	U		0.32	U		0.32	U		0.32	U	
ANTHRACENE	0.095	U		0.095	U		0.095	U		0.095	U	
ATRAZINE	0.32	U		0.32	U		0.32	U		0.32	U	
BENZALDEHYDE	0.37	U		0.37	U		0.37	U		0.37	U	
BENZO(A)ANTHRACENE	0.095	U		0.095	U		0.095	U		0.095	U	
BENZO(A)PYRENE	0.095	UL	E	0.095	UL	E	0.095	UL	E	0.095	UL	E
BENZO(B)FLUORANTHENE	0.095	U		0.095	U		0.095	U		0.095	U	

PROJ_NO: C03292 SDG: 240-948-1 FRACTION: OS MEDIA: WATER	NSAMPLE	MSA-SW37A-060811			MSA-SW37B-060811			MSA-SW37C-060811			MSA-SW38A-060811		
	LAB_ID	240-948-26			240-948-27			240-948-28			240-948-14		
	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZO(G,H,I)PERYLENE		0.095	U		0.095	U		0.095	U		0.096	U	
BENZO(K)FLUORANTHENE		0.095	U		0.095	U		0.095	U		0.096	U	
BIS(2-CHLOROETHOXY)METHANE		0.3	U		0.3	U		0.3	U		0.31	U	
BIS(2-CHLOROETHYL)ETHER		0.095	U		0.095	U		0.095	U		0.096	U	
BIS(2-ETHYLHEXYL)PHTHALATE		2.7	B	A	2.2	B	A	1.2	B	A	1.1	B	A
BUTYL BENZYL PHTHALATE		0.76	U		0.76	U		0.76	U		0.77	U	
CAPROLACTAM		0.76	U		0.76	U		0.76	U		0.77	U	
CARBAZOLE		0.27	U		0.27	U		0.27	U		0.27	U	
CHRYSENE		0.095	U		0.095	U		0.095	U		0.096	U	
DIBENZO(A,H)ANTHRACENE		0.095	U		0.095	U		0.095	U		0.096	U	
DIBENZOFURAN		0.095	U		0.095	U		0.095	U		0.096	U	
DIETHYL PHTHALATE		0.57	U		0.57	U		0.57	U		0.58	U	
DIMETHYL PHTHALATE		0.28	U		0.28	U		0.28	U		0.28	U	
DI-N-BUTYL PHTHALATE		0.64	U		0.64	U		0.64	U		0.64	U	
DI-N-OCTYL PHTHALATE		0.76	U		0.76	U		0.76	U		0.77	U	
FLUORANTHENE		0.095	U		0.095	U		0.095	U		0.096	U	
FLUORENE		0.095	U		0.095	U		0.095	U		0.096	U	
HEXACHLOROBENZENE		0.095	U		0.095	U		0.095	U		0.096	U	
HEXACHLOROBUTADIENE		0.26	U		0.26	U		0.26	U		0.26	U	
HEXACHLOROCYCLOPENTADIENE		0.76	U		0.76	U		0.76	U		0.77	U	
HEXACHLOROETHANE		0.76	U		0.76	U		0.76	U		0.77	U	
INDENO(1,2,3-CD)PYRENE		0.095	U		0.095	U		0.095	U		0.096	U	
ISOPHORONE		0.26	U		0.26	U		0.26	U		0.26	U	
NAPHTHALENE		0.095	U		0.095	U		0.095	U		0.096	U	
NITROBENZENE		0.038	U		0.038	U		0.038	U		0.038	U	
N-NITROSODIMETHYLAMINE		0.3	U		0.3	U		0.3	U		0.3	U	
N-NITROSO-DI-N-PROPYLAMINE		0.76	U		0.76	U		0.76	U		0.77	U	
N-NITROSODIPHENYLAMINE		0.3	U		0.3	U		0.3	U		0.3	U	
PENTACHLOROPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
PHENANTHRENE		0.095	U		0.095	U		0.095	U		0.096	U	
PHENOL		0.57	U		0.57	U		0.63	J	P	0.58	U	
PYRENE		0.095	U		0.095	U		0.095	U		0.096	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW38B-060811			MSA-SW38C-060811			MSA-SW39A-060811			MSA-SW39B-060811		
SDG: 240-948-1	LAB_ID	240-948-15			240-948-16			240-948-2			240-948-3		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZO(G,H,I)PERYLENE		0.096	U		0.095	U		0.095	UL	E	0.095	UL	E
BENZO(K)FLUORANTHENE		0.096	U		0.095	U		0.095	U		0.095	U	
BIS(2-CHLOROETHOXY)METHANE		0.31	U		0.3	U		0.3	U		0.3	U	
BIS(2-CHLOROETHYL)ETHER		0.096	U		0.095	U		0.095	U		0.095	U	
BIS(2-ETHYLHEXYL)PHTHALATE		0.77	U		0.91	B	A	0.76	U		0.76	U	
BUTYL BENZYL PHTHALATE		0.77	U		0.76	U		0.76	U		0.76	U	
CAPROLACTAM		0.77	U		0.76	U		0.76	U		0.76	U	
CARBAZOLE		0.27	U		0.27	U		0.27	U		0.27	U	
CHRYSENE		0.096	U		0.095	U		0.095	U		0.095	U	
DIBENZO(A,H)ANTHRACENE		0.096	U		0.095	U		0.095	UL	E	0.095	UL	E
DIBENZOFURAN		0.096	U		0.095	U		0.095	U		0.095	U	
DIETHYL PHTHALATE		0.58	U		0.57	U		0.57	U		0.57	U	
DIMETHYL PHTHALATE		0.28	U		0.28	U		0.28	U		0.28	U	
DI-N-BUTYL PHTHALATE		0.64	U		0.64	U		0.64	U		0.64	U	
DI-N-OCTYL PHTHALATE		0.77	U		0.76	U		0.76	UL	E	0.76	UL	E
FLUORANTHENE		0.096	U		0.095	U		0.095	U		0.095	U	
FLUORENE		0.096	U		0.095	U		0.095	U		0.095	U	
HEXACHLOROBENZENE		0.096	U		0.095	U		0.095	U		0.095	U	
HEXACHLOROBUTADIENE		0.26	U		0.26	U		0.26	U		0.26	U	
HEXACHLOROCYCLOPENTADIENE		0.77	U		0.76	U		0.76	U		0.76	U	
HEXACHLOROETHANE		0.77	U		0.76	U		0.76	U		0.76	U	
INDENO(1,2,3-CD)PYRENE		0.096	U		0.095	U		0.095	UL	E	0.095	UL	E
ISOPHORONE		0.26	U		0.26	U		0.26	U		0.26	U	
NAPHTHALENE		0.096	U		0.095	U		0.095	U		0.095	U	
NITROBENZENE		0.038	U		0.038	U		0.038	U		0.038	U	
N-NITROSODIMETHYLAMINE		0.3	U		0.3	U		0.3	U		0.3	U	
N-NITROSO-DI-N-PROPYLAMINE		0.77	U		0.76	U		0.76	U		0.76	U	
N-NITROSODIPHENYLAMINE		0.3	U		0.3	U		0.3	U		0.3	U	
PENTACHLOROPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
PHENANTHRENE		0.096	U		0.095	U		0.095	U		0.095	U	
PHENOL		0.58	U		0.57	U		0.57	U		0.57	U	
PYRENE		0.096	U		0.095	U		0.095	U		0.095	U	

PROJ_NO: C03292 SDG: 240-948-1 FRACTION: OS MEDIA: WATER	NSAMPLE	MSA-SW39C-060811			MSA-SW40A-060811			MSA-SW40B-060811			MSA-SW40C-060811		
	LAB_ID	240-948-4			240-948-20			240-948-21			240-948-22		
	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZO(G,H,I)PERYLENE		0.095	UL	E	0.095	U		0.095	U		0.095	U	
BENZO(K)FLUORANTHENE		0.095	U		0.095	U		0.095	U		0.095	U	
BIS(2-CHLOROETHOXY)METHANE		0.3	U		0.3	U		0.3	U		0.3	U	
BIS(2-CHLOROETHYL)ETHER		0.095	U		0.095	U		0.095	U		0.095	U	
BIS(2-ETHYLHEXYL)PHTHALATE		0.76	U		2.2	B	A	1.2	B	A	0.86	B	A
BUTYL BENZYL PHTHALATE		0.76	U		0.76	U		0.76	U		0.76	U	
CAPROLACTAM		0.76	U		0.76	U		0.76	U		0.76	U	
CARBAZOLE		0.27	U		0.27	U		0.27	U		0.27	U	
CHRYSENE		0.095	U		0.095	U		0.095	U		0.095	U	
DIBENZO(A,H)ANTHRACENE		0.095	UL	E	0.095	U		0.095	U		0.095	U	
DIBENZOFURAN		0.095	U		0.095	U		0.095	U		0.095	U	
DIETHYL PHTHALATE		0.57	U		0.57	U		0.57	U		0.57	U	
DIMETHYL PHTHALATE		0.28	U		0.28	U		0.28	U		0.28	U	
DI-N-BUTYL PHTHALATE		0.64	U		0.64	U		0.64	U		0.64	U	
DI-N-OCTYL PHTHALATE		0.76	UL	E	0.76	U		0.76	U		0.76	U	
FLUORANTHENE		0.095	U		0.095	U		0.095	U		0.095	U	
FLUORENE		0.095	U		0.095	U		0.095	U		0.095	U	
HEXACHLOROBENZENE		0.095	U		0.095	U		0.095	U		0.095	U	
HEXACHLOROBUTADIENE		0.26	U		0.26	U		0.26	U		0.26	U	
HEXACHLOROCYCLOPENTADIENE		0.76	U		0.76	U		0.76	U		0.76	U	
HEXACHLOROETHANE		0.76	U		0.76	U		0.76	U		0.76	U	
INDENO(1,2,3-CD)PYRENE		0.095	UL	E	0.095	U		0.095	U		0.095	U	
ISOPHORONE		0.26	U		0.26	U		0.26	U		0.26	U	
NAPHTHALENE		0.095	U		0.095	U		0.095	U		0.095	U	
NITROBENZENE		0.038	U		0.038	U		0.038	U		0.038	U	
N-NITROSODIMETHYLAMINE		0.3	U		0.3	U		0.3	U		0.3	U	
N-NITROSO-DI-N-PROPYLAMINE		0.76	U		0.76	U		0.76	U		0.76	U	
N-NITROSODIPHENYLAMINE		0.3	U		0.3	U		0.3	U		0.3	U	
PENTACHLOROPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
PHENANTHRENE		0.095	U		0.095	U		0.095	U		0.095	U	
PHENOL		0.57	U		0.57	U		0.57	U		0.57	U	
PYRENE		0.095	U		0.095	U		0.095	U		0.095	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW41A-060811			MSA-SW41B-060811			MSA-SW41C-060811			MSA-SW42A-060811		
SDG: 240-948-1	LAB_ID	240-948-11			240-948-12			240-948-13			240-948-23		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												

PARAMETER	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZO(G,H,I)PERYLENE	0.095	U		0.096	U		0.096	U		0.095	U	
BENZO(K)FLUORANTHENE	0.095	U		0.096	U		0.096	U		0.095	U	
BIS(2-CHLOROETHOXY)METHANE	0.3	U		0.31	U		0.31	U		0.3	U	
BIS(2-CHLOROETHYL)ETHER	0.095	U		0.096	U		0.096	U		0.095	U	
BIS(2-ETHYLHEXYL)PHTHALATE	0.76	B	A	0.89	B	A	0.77	U		1.9	B	A
BUTYL BENZYL PHTHALATE	0.76	U		0.77	U		0.77	U		0.76	U	
CAPROLACTAM	0.76	U		0.77	U		0.77	U		0.76	U	
CARBAZOLE	0.27	U		0.27	U		0.27	U		0.27	U	
CHRYSENE	0.095	U		0.096	U		0.096	U		0.095	U	
DIBENZO(A,H)ANTHRACENE	0.095	U		0.096	U		0.096	U		0.095	U	
DIBENZOFURAN	0.095	U		0.096	U		0.096	U		0.095	U	
DIETHYL PHTHALATE	0.57	U		0.58	U		0.58	U		0.57	U	
DIMETHYL PHTHALATE	0.28	U		0.28	U		0.28	U		0.28	U	
DI-N-BUTYL PHTHALATE	0.64	U		0.64	U		0.64	U		0.64	U	
DI-N-OCTYL PHTHALATE	0.76	U		0.77	U		0.77	U		0.76	U	
FLUORANTHENE	0.095	U		0.096	U		0.096	U		0.095	U	
FLUORENE	0.095	U		0.096	U		0.096	U		0.095	U	
HEXACHLOROBENZENE	0.095	U		0.096	U		0.096	U		0.095	U	
HEXACHLOROBUTADIENE	0.26	U		0.26	U		0.26	U		0.26	U	
HEXACHLOROCYCLOPENTADIENE	0.76	U		0.77	U		0.77	U		0.76	U	
HEXACHLOROETHANE	0.76	U		0.77	U		0.77	U		0.76	U	
INDENO(1,2,3-CD)PYRENE	0.095	U		0.096	U		0.096	U		0.095	U	
ISOPHORONE	0.26	U		0.26	U		0.26	U		0.26	U	
NAPHTHALENE	0.095	U		0.096	U		0.096	U		0.095	U	
NITROBENZENE	0.038	U		0.038	U		0.038	U		0.038	U	
N-NITROSODIMETHYLAMINE	0.3	U		0.3	U		0.3	U		0.3	U	
N-NITROSO-DI-N-PROPYLAMINE	0.76	U		0.77	U		0.77	U		0.76	U	
N-NITROSODIPHENYLAMINE	0.3	U		0.3	U		0.3	U		0.3	U	
PENTACHLOROPHENOL	2.3	U		2.3	U		2.3	U		2.3	U	
PHENANTHRENE	0.095	U		0.096	U		0.096	U		0.095	U	
PHENOL	0.57	U		0.58	U		0.58	U		0.57	U	
PYRENE	0.095	U		0.096	U		0.096	U		0.095	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW42B-060811			MSA-SW42C-060811			MSA-SW42C-060811DL			MSA-SW43A-060811		
SDG: 240-948-1	LAB_ID	240-948-24			240-948-25			240-948-25			240-948-17		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZO(G,H,I)PERYLENE		0.096	U		0.097	U					0.095	U	
BENZO(K)FLUORANTHENE		0.096	U		0.097	U					0.095	U	
BIS(2-CHLOROETHOXY)METHANE		0.31	U		0.31	U					0.3	U	
BIS(2-CHLOROETHYL)ETHER		0.096	U		0.097	U					0.095	U	
BIS(2-ETHYLHEXYL)PHTHALATE		1.1	B	A				160			0.91	B	A
BUTYL BENZYL PHTHALATE		4			17						0.76	U	
CAPROLACTAM		0.77	U		0.78	U					0.76	U	
CARBAZOLE		0.27	U		0.27	U					0.27	U	
CHRYSENE		0.096	U		0.097	U					0.095	U	
DIBENZO(A,H)ANTHRACENE		0.096	U		0.097	U					0.095	U	
DIBENZOFURAN		0.096	U		0.097	U					0.095	U	
DIETHYL PHTHALATE		0.58	U		0.58	U					0.57	U	
DIMETHYL PHTHALATE		0.28	U		0.28	U					0.28	U	
DI-N-BUTYL PHTHALATE		0.64	U		0.67	J	P				0.64	U	
DI-N-OCTYL PHTHALATE		0.77	U		0.78	U					0.76	U	
FLUORANTHENE		0.096	U		0.097	U					0.095	U	
FLUORENE		0.096	U		0.097	U					0.095	U	
HEXACHLOROBENZENE		0.096	U		0.097	U					0.095	U	
HEXACHLOROBUTADIENE		0.26	U		0.26	U					0.26	U	
HEXACHLOROCYCLOPENTADIENE		0.77	U		0.78	U					0.76	U	
HEXACHLOROETHANE		0.77	U		0.78	U					0.76	U	
INDENO(1,2,3-CD)PYRENE		0.096	U		0.097	U					0.095	U	
ISOPHORONE		0.26	U		0.26	U					0.26	U	
NAPHTHALENE		0.096	U		0.097	U					0.095	U	
NITROBENZENE		0.038	U		0.039	U					0.038	U	
N-NITROSODIMETHYLAMINE		0.3	U		0.3	U					0.3	U	
N-NITROSO-DI-N-PROPYLAMINE		0.77	U		0.78	U					0.76	U	
N-NITROSODIPHENYLAMINE		0.3	U		0.3	U					0.3	U	
PENTACHLOROPHENOL		2.3	U		2.3	U					2.3	U	
PHENANTHRENE		0.096	U		0.097	U					0.095	U	
PHENOL		0.58	U		2						0.57	U	
PYRENE		0.096	U		0.097	U					0.095	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW43B-060811			MSA-SW43C-060811			MSA-SW44A-060811			MSA-SW44B-060811		
SDG: 240-948-1	LAB_ID	240-948-18			240-948-19			240-948-8			240-948-9		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZO(G,H,I)PERYLENE		0.096	U		0.096	U		0.095	UL	E	0.095	UL	E
BENZO(K)FLUORANTHENE		0.096	U		0.096	U		0.095	U		0.095	U	
BIS(2-CHLOROETHOXY)METHANE		0.31	U		0.31	U		0.3	U		0.3	U	
BIS(2-CHLOROETHYL)ETHER		0.096	U		0.096	U		0.095	U		0.095	U	
BIS(2-ETHYLHEXYL)PHTHALATE		1.7	B	A	1.7	B	A	0.76	U		0.76	U	
BUTYL BENZYL PHTHALATE		0.77	U		0.77	U		0.76	U		0.76	U	
CAPROLACTAM		0.77	U		0.77	U		0.76	U		0.76	U	
CARBAZOLE		0.27	U		0.27	U		0.27	U		0.27	U	
CHRYSENE		0.096	U		0.096	U		0.095	U		0.095	U	
DIBENZO(A,H)ANTHRACENE		0.096	U		0.096	U		0.095	UL	E	0.095	UL	E
DIBENZOFURAN		0.096	U		0.096	U		0.095	U		0.095	U	
DIETHYL PHTHALATE		0.58	U		0.58	U		0.57	U		0.57	U	
DIMETHYL PHTHALATE		0.28	U		0.28	U		0.28	U		0.28	U	
DI-N-BUTYL PHTHALATE		0.64	U		0.64	U		0.64	U		0.64	U	
DI-N-OCTYL PHTHALATE		0.77	U		0.77	U		0.76	UL	E	0.76	UL	E
FLUORANTHENE		0.096	U		0.096	U		0.095	U		0.095	U	
FLUORENE		0.096	U		0.096	U		0.095	U		0.095	U	
HEXACHLOROBENZENE		0.096	U		0.096	U		0.095	U		0.095	U	
HEXACHLOROBUTADIENE		0.26	U		0.26	U		0.26	U		0.26	U	
HEXACHLOROCYCLOPENTADIENE		0.77	U		0.77	U		0.76	U		0.76	U	
HEXACHLOROETHANE		0.77	U		0.77	U		0.76	U		0.76	U	
INDENO(1,2,3-CD)PYRENE		0.096	U		0.096	U		0.095	UL	E	0.095	UL	E
ISOPHORONE		0.26	U		0.26	U		0.26	U		0.26	U	
NAPHTHALENE		0.096	U		0.096	U		0.095	U		0.095	U	
NITROBENZENE		0.038	U		0.038	U		0.038	U		0.038	U	
N-NITROSODIMETHYLAMINE		0.3	U		0.3	U		0.3	U		0.3	U	
N-NITROSO-DI-N-PROPYLAMINE		0.77	U		0.77	U		0.76	U		0.76	U	
N-NITROSODIPHENYLAMINE		0.3	U		0.3	U		0.3	U		0.3	U	
PENTACHLOROPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
PHENANTHRENE		0.096	U		0.096	U		0.095	U		0.095	U	
PHENOL		0.58	U		0.58	U		0.57	U		0.57	U	
PYRENE		0.096	U		0.096	U		0.095	U		0.095	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW44C-060811			MSA-SW45A-060811			MSA-SW45B-060811			MSA-SW45C-060811		
SDG: 240-948-1	LAB_ID	240-948-10			240-948-5			240-948-6			240-948-7		
FRACTION: OS	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
BENZO(G,H,I)PERYLENE		0.095	UL	E	0.095	UL	E	0.095	UL	E	0.095	UL	E
BENZO(K)FLUORANTHENE		0.095	U		0.095	U		0.095	U		0.095	U	
BIS(2-CHLOROETHOXY)METHANE		0.3	U		0.3	U		0.3	U		0.3	U	
BIS(2-CHLOROETHYL)ETHER		0.095	U		0.095	U		0.095	U		0.095	U	
BIS(2-ETHYLHEXYL)PHTHALATE		0.76	U		0.76	U		0.76	U		2		
BUTYL BENZYL PHTHALATE		0.76	U		0.76	U		0.76	U		0.76	U	
CAPROLACTAM		0.76	U		0.76	U		0.76	U		0.76	U	
CARBAZOLE		0.27	U		0.27	U		0.27	U		0.27	U	
CHRYSENE		0.095	U		0.095	U		0.095	U		0.095	U	
DIBENZO(A,H)ANTHRACENE		0.095	UL	E	0.095	UL	E	0.095	UL	E	0.095	UL	E
DIBENZOFURAN		0.095	U		0.095	U		0.095	U		0.095	U	
DIETHYL PHTHALATE		0.57	U		0.57	U		0.57	U		0.57	U	
DIMETHYL PHTHALATE		0.28	U		0.28	U		0.28	U		0.28	U	
DI-N-BUTYL PHTHALATE		0.64	U		0.64	U		0.64	U		0.64	U	
DI-N-OCTYL PHTHALATE		0.76	UL	E	0.76	UL	E	0.76	UL	E	0.76	UL	E
FLUORANTHENE		0.095	U		0.095	U		0.095	U		0.095	U	
FLUORENE		0.095	U		0.095	U		0.095	U		0.095	U	
HEXACHLOROBENZENE		0.095	U		0.095	U		0.095	U		0.095	U	
HEXACHLOROBUTADIENE		0.26	U		0.26	U		0.26	U		0.26	U	
HEXACHLOROCYCLOPENTADIENE		0.76	U		0.76	U		0.76	U		0.76	U	
HEXACHLOROETHANE		0.76	U		0.76	U		0.76	U		0.76	U	
INDENO(1,2,3-CD)PYRENE		0.095	UL	E	0.095	UL	E	0.095	UL	E	0.095	UL	E
ISOPHORONE		0.26	U		0.26	U		0.26	U		0.26	U	
NAPHTHALENE		0.095	U		0.095	U		0.095	U		0.095	U	
NITROBENZENE		0.038	U		0.038	U		0.038	U		0.038	U	
N-NITROSODIMETHYLAMINE		0.3	U		0.3	U		0.3	U		0.3	U	
N-NITROSO-DI-N-PROPYLAMINE		0.76	U		0.76	U		0.76	U		0.76	U	
N-NITROSODIPHENYLAMINE		0.3	U		0.3	U		0.3	U		0.3	U	
PENTACHLOROPHENOL		2.3	U		2.3	U		2.3	U		2.3	U	
PHENANTHRENE		0.095	U		0.095	U		0.095	U		0.095	U	
PHENOL		0.57	U		0.57	U		0.57	U		0.57	U	
PYRENE		0.095	U		0.095	U		0.095	U		0.095	U	

Appendix B

Results as Reported by the Laboratory

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37A-060811 | Lab Sample ID: 240-948-26

Matrix: Water | Lab File ID: UXX2510.D

Analysis Method: 8260B | Date Collected: 06/08/2011 13:16

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 01:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5551 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.3	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.35	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37A-060811 | Lab Sample ID: 240-948-26

Matrix: Water | Lab File ID: UXX2510.D

Analysis Method: 8260B | Date Collected: 06/08/2011 13:16

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 01:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5551 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.48	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37A-060811 | Lab Sample ID: 240-948-26

Matrix: Water | Lab File ID: UXX2510.D

Analysis Method: 8260B | Date Collected: 06/08/2011 13:16

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 01:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5551 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		63-129
2037-26-5	Toluene-d8 (Surr)	91		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37B-060811 | Lab Sample ID: 240-948-27

Matrix: Water | Lab File ID: UXX2511.D

Analysis Method: 8260B | Date Collected: 06/08/2011 13:23

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 02:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5551 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.4	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.53	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37B-060811 | Lab Sample ID: 240-948-27

Matrix: Water | Lab File ID: UXX2511.D

Analysis Method: 8260B | Date Collected: 06/08/2011 13:23

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 02:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5551 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.58	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.42	J	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37B-060811 Lab Sample ID: 240-948-27

Matrix: Water Lab File ID: UXX2511.D

Analysis Method: 8260B Date Collected: 06/08/2011 13:23

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 02:17

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	83		66-117
1868-53-7	Dibromofluoromethane (Surr)	99		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		63-129
2037-26-5	Toluene-d8 (Surr)	90		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37C-060811 Lab Sample ID: 240-948-28

Matrix: Water Lab File ID: UXX2512.D

Analysis Method: 8260B Date Collected: 06/08/2011 13:28

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 02:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37C-060811 Lab Sample ID: 240-948-28

Matrix: Water Lab File ID: UXX2512.D

Analysis Method: 8260B Date Collected: 06/08/2011 13:28

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 02:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.68	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37C-060811 Lab Sample ID: 240-948-28

Matrix: Water Lab File ID: UXX2512.D

Analysis Method: 8260B Date Collected: 06/08/2011 13:28

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 02:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		66-117
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		63-129
2037-26-5	Toluene-d8 (Surr)	90		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38A-060811 Lab Sample ID: 240-948-14

Matrix: Water Lab File ID: UXJ8038.D

Analysis Method: 8260B Date Collected: 06/08/2011 11:05

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 19:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.7	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	2.3		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38A-060811 | Lab Sample ID: 240-948-14

Matrix: Water | Lab File ID: UXJ8038.D

Analysis Method: 8260B | Date Collected: 06/08/2011 11:05

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 19:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.7		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.4		1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38A-060811 Lab Sample ID: 240-948-14

Matrix: Water Lab File ID: UXJ8038.D

Analysis Method: 8260B Date Collected: 06/08/2011 11:05

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 19:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		66-117
1868-53-7	Dibromofluoromethane (Surr)	103		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		63-129
2037-26-5	Toluene-d8 (Surr)	101		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38B-060811 | Lab Sample ID: 240-948-15

Matrix: Water | Lab File ID: UXJ8039.D

Analysis Method: 8260B | Date Collected: 06/08/2011 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 19:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	2.3	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.1		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38B-060811 | Lab Sample ID: 240-948-15

Matrix: Water | Lab File ID: UXJ8039.D

Analysis Method: 8260B | Date Collected: 06/08/2011 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 19:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.5		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.42	J	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38B-060811 Lab Sample ID: 240-948-15

Matrix: Water Lab File ID: UXJ8039.D

Analysis Method: 8260B Date Collected: 06/08/2011 11:10

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 19:52

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		66-117
1868-53-7	Dibromofluoromethane (Surr)	103		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		63-129
2037-26-5	Toluene-d8 (Surr)	103		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38C-060811 | Lab Sample ID: 240-948-16

Matrix: Water | Lab File ID: UXJ8040.D

Analysis Method: 8260B | Date Collected: 06/08/2011 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 20:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.7	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.61	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38C-060811 | Lab Sample ID: 240-948-16

Matrix: Water | Lab File ID: UXJ8040.D

Analysis Method: 8260B | Date Collected: 06/08/2011 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 20:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.87	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38C-060811 Lab Sample ID: 240-948-16

Matrix: Water Lab File ID: UXJ8040.D

Analysis Method: 8260B Date Collected: 06/08/2011 11:20

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 20:15

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		66-117
1868-53-7	Dibromofluoromethane (Surr)	99		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		63-129
2037-26-5	Toluene-d8 (Surr)	103		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39A-060811 Lab Sample ID: 240-948-2

Matrix: Water Lab File ID: UXJ8026.D

Analysis Method: 8260B Date Collected: 06/08/2011 09:00

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 14:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.5	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39A-060811 | Lab Sample ID: 240-948-2

Matrix: Water | Lab File ID: UXJ8026.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 14:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39A-060811 Lab Sample ID: 240-948-2

Matrix: Water Lab File ID: UXJ8026.D

Analysis Method: 8260B Date Collected: 06/08/2011 09:00

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 14:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		66-117
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		63-129
2037-26-5	Toluene-d8 (Surr)	103		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39B-060811 | Lab Sample ID: 240-948-3

Matrix: Water | Lab File ID: UXJ8027.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 15:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39B-060811 Lab Sample ID: 240-948-3

Matrix: Water Lab File ID: UXJ8027.D

Analysis Method: 8260B Date Collected: 06/08/2011 09:05

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 15:16

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.19	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39B-060811 | Lab Sample ID: 240-948-3

Matrix: Water | Lab File ID: UXJ8027.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:05

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 15:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		66-117
1868-53-7	Dibromofluoromethane (Surr)	101		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		63-129
2037-26-5	Toluene-d8 (Surr)	103		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39C-060811 | Lab Sample ID: 240-948-4

Matrix: Water | Lab File ID: UXJ8028.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 15:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.5	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39C-060811 Lab Sample ID: 240-948-4

Matrix: Water Lab File ID: UXJ8028.D

Analysis Method: 8260B Date Collected: 06/08/2011 09:10

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 15:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39C-060811 Lab Sample ID: 240-948-4

Matrix: Water Lab File ID: UXJ8028.D

Analysis Method: 8260B Date Collected: 06/08/2011 09:10

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 15:39

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	104		66-117
1868-53-7	Dibromofluoromethane (Surr)	102		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		63-129
2037-26-5	Toluene-d8 (Surr)	103		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40A-060811 Lab Sample ID: 240-948-20

Matrix: Water Lab File ID: UXJ8044.D

Analysis Method: 8260B Date Collected: 06/08/2011 11:35

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 21:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.1	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.2		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40A-060811 | Lab Sample ID: 240-948-20

Matrix: Water | Lab File ID: UXJ8044.D

Analysis Method: 8260B | Date Collected: 06/08/2011 11:35

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 21:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.4		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40A-060811 Lab Sample ID: 240-948-20

Matrix: Water Lab File ID: UXJ8044.D

Analysis Method: 8260B Date Collected: 06/08/2011 11:35

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 21:47

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		66-117
1868-53-7	Dibromofluoromethane (Surr)	99		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		63-129
2037-26-5	Toluene-d8 (Surr)	103		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40B-060811 Lab Sample ID: 240-948-21

Matrix: Water Lab File ID: UXX2505.D

Analysis Method: 8260B Date Collected: 06/08/2011 10:40

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 00:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	2.1	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40B-060811 | Lab Sample ID: 240-948-21

Matrix: Water | Lab File ID: UXX2505.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 00:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5551 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.3		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	0.58	J	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40B-060811 Lab Sample ID: 240-948-21

Matrix: Water Lab File ID: UXX2505.D

Analysis Method: 8260B Date Collected: 06/08/2011 10:40

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 00:07

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	96		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		63-129
2037-26-5	Toluene-d8 (Surr)	92		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40C-060811 Lab Sample ID: 240-948-22

Matrix: Water Lab File ID: UXX2506.D

Analysis Method: 8260B Date Collected: 06/08/2011 11:50

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 00:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	4.4	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.49	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40C-060811 | Lab Sample ID: 240-948-22

Matrix: Water | Lab File ID: UXX2506.D

Analysis Method: 8260B | Date Collected: 06/08/2011 11:50

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 00:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5551 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.73	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40C-060811 Lab Sample ID: 240-948-22

Matrix: Water Lab File ID: UXX2506.D

Analysis Method: 8260B Date Collected: 06/08/2011 11:50

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 00:29

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	81		66-117
1868-53-7	Dibromofluoromethane (Surr)	95		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		63-129
2037-26-5	Toluene-d8 (Surr)	89		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41A-060811 | Lab Sample ID: 240-948-11

Matrix: Water | Lab File ID: UXJ8035.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 18:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.7	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.3		1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41A-060811 | Lab Sample ID: 240-948-11

Matrix: Water | Lab File ID: UXJ8035.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 18:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.4		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41A-060811 Lab Sample ID: 240-948-11

Matrix: Water Lab File ID: UXJ8035.D

Analysis Method: 8260B Date Collected: 06/08/2011 10:40

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 18:20

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		66-117
1868-53-7	Dibromofluoromethane (Surr)	102		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		63-129
2037-26-5	Toluene-d8 (Surr)	102		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41B-060811 Lab Sample ID: 240-948-12

Matrix: Water Lab File ID: UXJ8036.D

Analysis Method: 8260B Date Collected: 06/08/2011 10:50

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.5	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.87	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41B-060811 | Lab Sample ID: 240-948-12

Matrix: Water | Lab File ID: UXJ8036.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:50

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 18:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.1		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41B-060811 Lab Sample ID: 240-948-12

Matrix: Water Lab File ID: UXJ8036.D

Analysis Method: 8260B Date Collected: 06/08/2011 10:50

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 18:43

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		66-117
1868-53-7	Dibromofluoromethane (Surr)	102		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		63-129
2037-26-5	Toluene-d8 (Surr)	103		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41C-060811 | Lab Sample ID: 240-948-13

Matrix: Water | Lab File ID: UXJ8037.D

Analysis Method: 8260B | Date Collected: 06/08/2011 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 19:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.3	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.55	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41C-060811 Lab Sample ID: 240-948-13

Matrix: Water Lab File ID: UXJ8037.D

Analysis Method: 8260B Date Collected: 06/08/2011 11:00

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 19:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.58	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41C-060811 Lab Sample ID: 240-948-13

Matrix: Water Lab File ID: UXJ8037.D

Analysis Method: 8260B Date Collected: 06/08/2011 11:00

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 19:06

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	109		66-117
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		63-129
2037-26-5	Toluene-d8 (Surr)	104		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42A-060811 | Lab Sample ID: 240-948-23

Matrix: Water | Lab File ID: UXX2507.D

Analysis Method: 8260B | Date Collected: 06/08/2011 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 00:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5551 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.6	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.86	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42A-060811 | Lab Sample ID: 240-948-23

Matrix: Water | Lab File ID: UXX2507.D

Analysis Method: 8260B | Date Collected: 06/08/2011 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 00:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5551 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	0.17	J	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.60	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.2		1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42A-060811 Lab Sample ID: 240-948-23

Matrix: Water Lab File ID: UXX2507.D

Analysis Method: 8260B Date Collected: 06/08/2011 11:55

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 00:50

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	81		66-117
1868-53-7	Dibromofluoromethane (Surr)	95		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		63-129
2037-26-5	Toluene-d8 (Surr)	88		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42B-060811 Lab Sample ID: 240-948-24

Matrix: Water Lab File ID: UXX2508.D

Analysis Method: 8260B Date Collected: 06/08/2011 12:05

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 01:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.2	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.49	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42B-060811 Lab Sample ID: 240-948-24

Matrix: Water Lab File ID: UXX2508.D

Analysis Method: 8260B Date Collected: 06/08/2011 12:05

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 01:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.66	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42B-060811 Lab Sample ID: 240-948-24

Matrix: Water Lab File ID: UXX2508.D

Analysis Method: 8260B Date Collected: 06/08/2011 12:05

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 01:12

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	82		66-117
1868-53-7	Dibromofluoromethane (Surr)	93		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		63-129
2037-26-5	Toluene-d8 (Surr)	89		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42C-060811 Lab Sample ID: 240-948-25

Matrix: Water Lab File ID: UXX2509.D

Analysis Method: 8260B Date Collected: 06/08/2011 12:10

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 01:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.3	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.51	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42C-060811 Lab Sample ID: 240-948-25

Matrix: Water Lab File ID: UXX2509.D

Analysis Method: 8260B Date Collected: 06/08/2011 12:10

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 01:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.70	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U *	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42C-060811 Lab Sample ID: 240-948-25

Matrix: Water Lab File ID: UXX2509.D

Analysis Method: 8260B Date Collected: 06/08/2011 12:10

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 01:33

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	86		66-117
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		63-129
2037-26-5	Toluene-d8 (Surr)	90		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43A-060811 | Lab Sample ID: 240-948-17

Matrix: Water | Lab File ID: UXJ8041.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 20:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.91	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43A-060811 | Lab Sample ID: 240-948-17

Matrix: Water | Lab File ID: UXJ8041.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 20:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.3		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43A-060811 Lab Sample ID: 240-948-17

Matrix: Water Lab File ID: UXJ8041.D

Analysis Method: 8260B Date Collected: 06/08/2011 10:20

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 20:38

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		66-117
1868-53-7	Dibromofluoromethane (Surr)	103		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		63-129
2037-26-5	Toluene-d8 (Surr)	104		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43B-060811 | Lab Sample ID: 240-948-18

Matrix: Water | Lab File ID: UXJ8042.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:25

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 21:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	1.1	J	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.95	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43B-060811 | Lab Sample ID: 240-948-18

Matrix: Water | Lab File ID: UXJ8042.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:25

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 21:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.2		1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43B-060811 | Lab Sample ID: 240-948-18

Matrix: Water | Lab File ID: UXJ8042.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:25

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 21:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		66-117
1868-53-7	Dibromofluoromethane (Surr)	105		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		63-129
2037-26-5	Toluene-d8 (Surr)	106		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43C-060811 | Lab Sample ID: 240-948-19

Matrix: Water | Lab File ID: UXJ8043.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 21:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.51	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43C-060811 | Lab Sample ID: 240-948-19

Matrix: Water | Lab File ID: UXJ8043.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 21:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.82	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43C-060811 Lab Sample ID: 240-948-19

Matrix: Water Lab File ID: UXJ8043.D

Analysis Method: 8260B Date Collected: 06/08/2011 10:30

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 21:24

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	108		66-117
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		63-129
2037-26-5	Toluene-d8 (Surr)	104		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44A-060811 | Lab Sample ID: 240-948-8

Matrix: Water | Lab File ID: UXJ8032.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:45

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 17:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.60	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44A-060811 | Lab Sample ID: 240-948-8

Matrix: Water | Lab File ID: UXJ8032.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:45

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 17:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.92	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44A-060811 | Lab Sample ID: 240-948-8

Matrix: Water | Lab File ID: UXJ8032.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:45

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 17:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	110		66-117
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		63-129
2037-26-5	Toluene-d8 (Surr)	106		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44B-060811 | Lab Sample ID: 240-948-9

Matrix: Water | Lab File ID: UXJ8033.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 17:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.26	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44B-060811 | Lab Sample ID: 240-948-9

Matrix: Water | Lab File ID: UXJ8033.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:50

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 17:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.41	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44B-060811 Lab Sample ID: 240-948-9

Matrix: Water Lab File ID: UXJ8033.D

Analysis Method: 8260B Date Collected: 06/08/2011 09:50

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 17:34

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		66-117
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		63-129
2037-26-5	Toluene-d8 (Surr)	103		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton
Job No.: 240-948-1
SDG No.:
Client Sample ID: MSA-SW44C-060811
Lab Sample ID: 240-948-10
Matrix: Water
Lab File ID: UXJ8034.D
Analysis Method: 8260B
Date Collected: 06/08/2011 10:00
Sample wt/vol: 5(mL)
Date Analyzed: 06/22/2011 17:57
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: DB-624 ID: 0.18(mm)
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 5679
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	0.28	J	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44C-060811 | Lab Sample ID: 240-948-10

Matrix: Water | Lab File ID: UXJ8034.D

Analysis Method: 8260B | Date Collected: 06/08/2011 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 17:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.37	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44C-060811 Lab Sample ID: 240-948-10

Matrix: Water Lab File ID: UXJ8034.D

Analysis Method: 8260B Date Collected: 06/08/2011 10:00

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 17:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	105		66-117
1868-53-7	Dibromofluoromethane (Surr)	103		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		63-129
2037-26-5	Toluene-d8 (Surr)	103		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45A-060811 | Lab Sample ID: 240-948-5

Matrix: Water | Lab File ID: UXJ8029.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 16:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45A-060811 | Lab Sample ID: 240-948-5

Matrix: Water | Lab File ID: UXJ8029.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 16:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.28	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45A-060811 Lab Sample ID: 240-948-5

Matrix: Water Lab File ID: UXJ8029.D

Analysis Method: 8260B Date Collected: 06/08/2011 09:20

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 16:02

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		66-117
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		63-129
2037-26-5	Toluene-d8 (Surr)	101		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45B-060811 | Lab Sample ID: 240-948-6

Matrix: Water | Lab File ID: UXJ8030.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:25

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 16:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45B-060811 Lab Sample ID: 240-948-6

Matrix: Water Lab File ID: UXJ8030.D

Analysis Method: 8260B Date Collected: 06/08/2011 09:25

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 16:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.24	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45B-060811 Lab Sample ID: 240-948-6

Matrix: Water Lab File ID: UXJ8030.D

Analysis Method: 8260B Date Collected: 06/08/2011 09:25

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 16:25

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		66-117
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		63-129
2037-26-5	Toluene-d8 (Surr)	105		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45C-060811 | Lab Sample ID: 240-948-7

Matrix: Water | Lab File ID: UXJ8031.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 16:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45C-060811 | Lab Sample ID: 240-948-7

Matrix: Water | Lab File ID: UXJ8031.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:35

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 16:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.24	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45C-060811 Lab Sample ID: 240-948-7

Matrix: Water Lab File ID: UXJ8031.D

Analysis Method: 8260B Date Collected: 06/08/2011 09:35

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 16:48

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	106		66-117
1868-53-7	Dibromofluoromethane (Surr)	106		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		63-129
2037-26-5	Toluene-d8 (Surr)	106		74-115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: TB-060811 | Lab Sample ID: 240-948-1

Matrix: Water | Lab File ID: UXJ8025.D

Analysis Method: 8260B | Date Collected: 06/08/2011 07:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 14:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: TB-060811 Lab Sample ID: 240-948-1

Matrix: Water Lab File ID: UXJ8025.D

Analysis Method: 8260B Date Collected: 06/08/2011 07:00

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 14:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: TB-060811 Lab Sample ID: 240-948-1

Matrix: Water Lab File ID: UXJ8025.D

Analysis Method: 8260B Date Collected: 06/08/2011 07:00

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 14:30

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		66-117
1868-53-7	Dibromofluoromethane (Surr)	101		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		63-129
2037-26-5	Toluene-d8 (Surr)	101		74-115

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton
Job No.: 240-948-1
SDG No.:
Client Sample ID: MSA-SW37A-060811
Lab Sample ID: 240-948-26
Matrix: Water
Lab File ID: 0705126.D
Analysis Method: 8270C
Date Collected: 06/08/2011 13:16
Extract. Method: 3520C
Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1050(mL)
Date Analyzed: 07/05/2011 18:21
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37A-060811 | Lab Sample ID: 240-948-26

Matrix: Water | Lab File ID: 0705126.D

Analysis Method: 8270C | Date Collected: 06/08/2011 13:16

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 18:21

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	2.7	B	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37A-060811 | Lab Sample ID: 240-948-26

Matrix: Water | Lab File ID: 0705126.D

Analysis Method: 8270C | Date Collected: 06/08/2011 13:16

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 18:21

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	43		37-119
4165-62-2	Phenol-d5 (Surr)	49		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	45		27-111
367-12-4	2-Fluorophenol (Surr)	47		10-110
321-60-8	2-Fluorobiphenyl (Surr)	43		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	62		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37B-060811 | Lab Sample ID: 240-948-27

Matrix: Water | Lab File ID: 0705127.D

Analysis Method: 8270C | Date Collected: 06/08/2011 13:23

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 18:38

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37B-060811 | Lab Sample ID: 240-948-27

Matrix: Water | Lab File ID: 0705127.D

Analysis Method: 8270C | Date Collected: 06/08/2011 13:23

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 18:38

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	2.2	B	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW37B-060811	Lab Sample ID: 240-948-27
Matrix: Water	Lab File ID: 0705127.D
Analysis Method: 8270C	Date Collected: 06/08/2011 13:23
Extract. Method: 3520C	Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1050(mL)	Date Analyzed: 07/05/2011 18:38
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	51		37-119
4165-62-2	Phenol-d5 (Surr)	53		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	48		27-111
367-12-4	2-Fluorophenol (Surr)	51		10-110
321-60-8	2-Fluorobiphenyl (Surr)	46		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	65		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW37C-060811 | Lab Sample ID: 240-948-28

Matrix: Water | Lab File ID: 0705128.D

Analysis Method: 8270C | Date Collected: 06/08/2011 13:28

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 18:54

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton
Job No.: 240-948-1
SDG No.:
Client Sample ID: MSA-SW37C-060811
Lab Sample ID: 240-948-28
Matrix: Water
Lab File ID: 0705128.D
Analysis Method: 8270C
Date Collected: 06/08/2011 13:28
Extract. Method: 3520C
Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1050(mL)
Date Analyzed: 07/05/2011 18:54
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.2	J B	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.63	J	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW37C-060811	Lab Sample ID: 240-948-28
Matrix: Water	Lab File ID: 0705128.D
Analysis Method: 8270C	Date Collected: 06/08/2011 13:28
Extract. Method: 3520C	Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1050(mL)	Date Analyzed: 07/05/2011 18:54
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	55		37-119
4165-62-2	Phenol-d5 (Surr)	53		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	48		27-111
367-12-4	2-Fluorophenol (Surr)	51		10-110
321-60-8	2-Fluorobiphenyl (Surr)	46		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	63		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38A-060811 | Lab Sample ID: 240-948-14

Matrix: Water | Lab File ID: 0705116.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:05

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 15:34

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.96	U	0.96	0.77
123-91-1	1,4-Dioxane	0.96	U	0.96	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.77
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.77
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.77
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.96	U	0.96	0.096
95-57-8	2-Chlorophenol	0.96	U	0.96	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.096
95-48-7	2-Methylphenol	0.96	U	0.96	0.77
88-74-4	2-Nitroaniline	1.9	U	1.9	0.77
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.72
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.36
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.77
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.77
106-47-8	4-Chloroaniline	1.9	U	1.9	0.77
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.77
83-32-9	Acenaphthene	0.19	U	0.19	0.096
208-96-8	Acenaphthylene	0.19	U	0.19	0.096
98-86-2	Acetophenone	0.96	U	0.96	0.33
120-12-7	Anthracene	0.19	U	0.19	0.096
1912-24-9	Atrazine	0.96	U	0.96	0.33
100-52-7	Benzaldehyde	0.96	U	0.96	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.096
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.096
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.096
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.096
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.096

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38A-060811 | Lab Sample ID: 240-948-14

Matrix: Water | Lab File ID: 0705116.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:05

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 15:34

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.96	U	0.96	0.31
111-44-4	Bis(2-chloroethyl)ether	0.96	U	0.96	0.096
117-81-7	Bis(2-ethylhexyl) phthalate	1.1	J B	1.9	0.77
85-68-7	Butyl benzyl phthalate	0.96	U	0.96	0.77
105-60-2	Caprolactam	4.8	U	4.8	0.77
86-74-8	Carbazole	0.96	U	0.96	0.27
218-01-9	Chrysene	0.19	U	0.19	0.096
84-74-2	Di-n-butyl phthalate	0.96	U	0.96	0.64
117-84-0	Di-n-octyl phthalate	0.96	U	0.96	0.77
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.096
132-64-9	Dibenzofuran	0.96	U	0.96	0.096
84-66-2	Diethyl phthalate	0.96	U	0.96	0.58
131-11-3	Dimethyl phthalate	0.96	U	0.96	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.096
86-73-7	Fluorene	0.19	U	0.19	0.096
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.096
87-68-3	Hexachlorobutadiene	0.96	U	0.96	0.26
77-47-4	Hexachlorocyclopentadiene	9.6	U	9.6	0.77
67-72-1	Hexachloroethane	0.96	U	0.96	0.77
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096
78-59-1	Isophorone	0.96	U	0.96	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.96	U	0.96	0.77
62-75-9	N-Nitrosodimethylamine	0.96	U	0.96	0.30
86-30-6	N-Nitrosodiphenylamine	0.96	U	0.96	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.096
98-95-3	Nitrobenzene	0.96	U	0.96	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.096
108-95-2	Phenol	0.96	U	0.96	0.58
129-00-0	Pyrene	0.19	U	0.19	0.096
108-60-1	2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.77
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

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GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38A-060811 | Lab Sample ID: 240-948-14

Matrix: Water | Lab File ID: 0705116.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:05

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 15:34

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	48		37-119
4165-62-2	Phenol-d5 (Surr)	55		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	53		27-111
367-12-4	2-Fluorophenol (Surr)	55		10-110
321-60-8	2-Fluorobiphenyl (Surr)	54		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	65		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38B-060811 | Lab Sample ID: 240-948-15

Matrix: Water | Lab File ID: 0705117.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:10

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 15:51

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.96	U	0.96	0.77
123-91-1	1,4-Dioxane	0.96	U	0.96	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.77
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.77
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.77
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.96	U	0.96	0.096
95-57-8	2-Chlorophenol	0.96	U	0.96	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.096
95-48-7	2-Methylphenol	0.96	U	0.96	0.77
88-74-4	2-Nitroaniline	1.9	U	1.9	0.77
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.72
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.36
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.77
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.77
106-47-8	4-Chloroaniline	1.9	U	1.9	0.77
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.77
83-32-9	Acenaphthene	0.19	U	0.19	0.096
208-96-8	Acenaphthylene	0.19	U	0.19	0.096
98-86-2	Acetophenone	0.96	U	0.96	0.33
120-12-7	Anthracene	0.19	U	0.19	0.096
1912-24-9	Atrazine	0.96	U	0.96	0.33
100-52-7	Benzaldehyde	0.96	U	0.96	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.096
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.096
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.096
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.096
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.096

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GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38B-060811 | Lab Sample ID: 240-948-15

Matrix: Water | Lab File ID: 0705117.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:10

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 15:51

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.96	U	0.96	0.31
111-44-4	Bis(2-chloroethyl)ether	0.96	U	0.96	0.096
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.77
85-68-7	Butyl benzyl phthalate	0.96	U	0.96	0.77
105-60-2	Caprolactam	4.8	U	4.8	0.77
86-74-8	Carbazole	0.96	U	0.96	0.27
218-01-9	Chrysene	0.19	U	0.19	0.096
84-74-2	Di-n-butyl phthalate	0.96	U	0.96	0.64
117-84-0	Di-n-octyl phthalate	0.96	U	0.96	0.77
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.096
132-64-9	Dibenzofuran	0.96	U	0.96	0.096
84-66-2	Diethyl phthalate	0.96	U	0.96	0.58
131-11-3	Dimethyl phthalate	0.96	U	0.96	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.096
86-73-7	Fluorene	0.19	U	0.19	0.096
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.096
87-68-3	Hexachlorobutadiene	0.96	U	0.96	0.26
77-47-4	Hexachlorocyclopentadiene	9.6	U	9.6	0.77
67-72-1	Hexachloroethane	0.96	U	0.96	0.77
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096
78-59-1	Isophorone	0.96	U	0.96	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.96	U	0.96	0.77
62-75-9	N-Nitrosodimethylamine	0.96	U	0.96	0.30
86-30-6	N-Nitrosodiphenylamine	0.96	U	0.96	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.096
98-95-3	Nitrobenzene	0.96	U	0.96	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.096
108-95-2	Phenol	0.96	U	0.96	0.58
129-00-0	Pyrene	0.19	U	0.19	0.096
108-60-1	2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.77
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW38B-060811	Lab Sample ID: 240-948-15
Matrix: Water	Lab File ID: 0705117.D
Analysis Method: 8270C	Date Collected: 06/08/2011 11:10
Extract. Method: 3520C	Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1040(mL)	Date Analyzed: 07/05/2011 15:51
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	33	X	37-119
4165-62-2	Phenol-d5 (Surr)	41		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	39		27-111
367-12-4	2-Fluorophenol (Surr)	42		10-110
321-60-8	2-Fluorobiphenyl (Surr)	41		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	48		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38C-060811 | Lab Sample ID: 240-948-16

Matrix: Water | Lab File ID: 0705118.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:20

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 16:08

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW38C-060811 | Lab Sample ID: 240-948-16

Matrix: Water | Lab File ID: 0705118.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:20

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 16:08

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	0.91	J B	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton
Job No.: 240-948-1
SDG No.:
Client Sample ID: MSA-SW38C-060811
Lab Sample ID: 240-948-16
Matrix: Water
Lab File ID: 0705118.D
Analysis Method: 8270C
Date Collected: 06/08/2011 11:20
Extract. Method: 3520C
Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1050(mL)
Date Analyzed: 07/05/2011 16:08
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	48		37-119
4165-62-2	Phenol-d5 (Surr)	51		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	46		27-111
367-12-4	2-Fluorophenol (Surr)	49		10-110
321-60-8	2-Fluorobiphenyl (Surr)	50		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	58		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39A-060811 | Lab Sample ID: 240-948-2

Matrix: Water | Lab File ID: 0629128.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:00

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 20:12

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U *	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U *	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U *	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39A-060811 | Lab Sample ID: 240-948-2

Matrix: Water | Lab File ID: 0629128.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:00

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 20:12

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U *	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U *	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U *	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39A-060811 | Lab Sample ID: 240-948-2

Matrix: Water | Lab File ID: 0629128.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:00

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 20:12

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	57		37-119
4165-62-2	Phenol-d5 (Surr)	58		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	58		27-111
367-12-4	2-Fluorophenol (Surr)	58		10-110
321-60-8	2-Fluorobiphenyl (Surr)	52		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	55		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39A-060811 RE | Lab Sample ID: 240-948-2 RE

Matrix: Water | Lab File ID: 948G2A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:00

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 21:38

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U H	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U H	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U H	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U H	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U H	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U H	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U H	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U H	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U H	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U H	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U H	0.19	0.095
95-48-7	2-Methylphenol	0.95	U H	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U H	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U H	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U H	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U H	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U H	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U H	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U H	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U H	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U H	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U H	1.9	0.76
83-32-9	Acenaphthene	0.19	U H	0.19	0.095
208-96-8	Acenaphthylene	0.19	U H	0.19	0.095
98-86-2	Acetophenone	0.95	U H	0.95	0.32
120-12-7	Anthracene	0.19	U H	0.19	0.095
1912-24-9	Atrazine	0.95	U H	0.95	0.32
100-52-7	Benzaldehyde	0.95	U H	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U H	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U H	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U H	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U H	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U H	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39A-060811 RE | Lab Sample ID: 240-948-2 RE

Matrix: Water | Lab File ID: 948G2A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:00

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 21:38

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U H	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U H	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U H	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U H	0.95	0.76
105-60-2	Caprolactam	4.8	U H	4.8	0.76
86-74-8	Carbazole	0.95	U H	0.95	0.27
218-01-9	Chrysene	0.19	U H	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U H	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U H	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U H	0.19	0.095
132-64-9	Dibenzofuran	0.95	U H	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U H	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U H	0.95	0.28
206-44-0	Fluoranthene	0.19	U H	0.19	0.095
86-73-7	Fluorene	0.19	U H	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U H	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U H	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U H	9.5	0.76
67-72-1	Hexachloroethane	0.95	U H	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.095
78-59-1	Isophorone	0.95	U H	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U H	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U H	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U H	0.95	0.30
91-20-3	Naphthalene	0.19	U H	0.19	0.095
98-95-3	Nitrobenzene	0.95	U H	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U H	4.8	2.3
85-01-8	Phenanthrene	0.19	U H	0.19	0.095
108-95-2	Phenol	0.95	U H	0.95	0.57
129-00-0	Pyrene	0.19	U H	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U H	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U H	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U H	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39A-060811 RE | Lab Sample ID: 240-948-2 RE

Matrix: Water | Lab File ID: 948G2A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:00

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 21:38

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	70		37-119
4165-62-2	Phenol-d5 (Surr)	75		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	70		27-111
367-12-4	2-Fluorophenol (Surr)	75		10-110
321-60-8	2-Fluorobiphenyl (Surr)	70		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	72		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39B-060811 | Lab Sample ID: 240-948-3

Matrix: Water | Lab File ID: 0629129.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:05

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 20:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U *	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U *	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U *	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39B-060811 | Lab Sample ID: 240-948-3

Matrix: Water | Lab File ID: 0629129.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:05

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 20:29

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U *	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U *	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U *	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW39B-060811	Lab Sample ID: 240-948-3
Matrix: Water	Lab File ID: 0629129.D
Analysis Method: 8270C	Date Collected: 06/08/2011 09:05
Extract. Method: 3520C	Date Extracted: 06/10/2011 10:54
Sample wt/vol: 1050(mL)	Date Analyzed: 06/29/2011 20:29
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 6510	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	53		37-119
4165-62-2	Phenol-d5 (Surr)	54		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	54		27-111
367-12-4	2-Fluorophenol (Surr)	54		10-110
321-60-8	2-Fluorobiphenyl (Surr)	45		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	55		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39B-060811 RE | Lab Sample ID: 240-948-3 RE

Matrix: Water | Lab File ID: 948H3A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:05

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 21:57

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U H	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U H	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U H	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U H	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U H	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U H	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U H	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U H	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U H	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U H	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U H	0.19	0.095
95-48-7	2-Methylphenol	0.95	U H	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U H	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U H	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U H	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U H	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U H	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U H	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U H	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U H	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U H	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U H	1.9	0.76
83-32-9	Acenaphthene	0.19	U H	0.19	0.095
208-96-8	Acenaphthylene	0.19	U H	0.19	0.095
98-86-2	Acetophenone	0.95	U H	0.95	0.32
120-12-7	Anthracene	0.19	U H	0.19	0.095
1912-24-9	Atrazine	0.95	U H	0.95	0.32
100-52-7	Benzaldehyde	0.95	U H	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U H	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U H	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U H	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U H	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U H	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39B-060811 RE | Lab Sample ID: 240-948-3 RE

Matrix: Water | Lab File ID: 948H3A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:05

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 21:57

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U H	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U H	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U H	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U H	0.95	0.76
105-60-2	Caprolactam	4.8	U H	4.8	0.76
86-74-8	Carbazole	0.95	U H	0.95	0.27
218-01-9	Chrysene	0.19	U H	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U H	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U H	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U H	0.19	0.095
132-64-9	Dibenzofuran	0.95	U H	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U H	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U H	0.95	0.28
206-44-0	Fluoranthene	0.19	U H	0.19	0.095
86-73-7	Fluorene	0.19	U H	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U H	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U H	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U H	9.5	0.76
67-72-1	Hexachloroethane	0.95	U H	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.095
78-59-1	Isophorone	0.95	U H	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U H	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U H	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U H	0.95	0.30
91-20-3	Naphthalene	0.19	U H	0.19	0.095
98-95-3	Nitrobenzene	0.95	U H	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U H	4.8	2.3
85-01-8	Phenanthrene	0.19	U H	0.19	0.095
108-95-2	Phenol	0.95	U H	0.95	0.57
129-00-0	Pyrene	0.19	U H	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U H	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U H	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U H	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39B-060811 RE Lab Sample ID: 240-948-3 RE

Matrix: Water Lab File ID: 948H3A.D

Analysis Method: 8270C Date Collected: 06/08/2011 09:05

Extract. Method: 3520C Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) Date Analyzed: 07/06/2011 21:57

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	81		37-119
4165-62-2	Phenol-d5 (Surr)	73		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	68		27-111
367-12-4	2-Fluorophenol (Surr)	69		10-110
321-60-8	2-Fluorobiphenyl (Surr)	68		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	73		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39C-060811 | Lab Sample ID: 240-948-4

Matrix: Water | Lab File ID: 0629130.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:10

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 20:46

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U *	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U *	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U *	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39C-060811 | Lab Sample ID: 240-948-4

Matrix: Water | Lab File ID: 0629130.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:10

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 20:46

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U *	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U *	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U *	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39C-060811 | Lab Sample ID: 240-948-4

Matrix: Water | Lab File ID: 0629130.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:10

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 20:46

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	55		37-119
4165-62-2	Phenol-d5 (Surr)	51		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	55		27-111
367-12-4	2-Fluorophenol (Surr)	52		10-110
321-60-8	2-Fluorobiphenyl (Surr)	49		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	53		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39C-060811 RE | Lab Sample ID: 240-948-4 RE

Matrix: Water | Lab File ID: 948G4A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:10

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 22:16

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U H	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U H	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U H	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U H	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U H	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U H	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U H	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U H	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U H	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U H	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U H	0.19	0.095
95-48-7	2-Methylphenol	0.95	U H	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U H	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U H	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U H	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U H	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U H	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U H	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U H	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U H	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U H	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U H	1.9	0.76
83-32-9	Acenaphthene	0.19	U H	0.19	0.095
208-96-8	Acenaphthylene	0.19	U H	0.19	0.095
98-86-2	Acetophenone	0.95	U H	0.95	0.32
120-12-7	Anthracene	0.19	U H	0.19	0.095
1912-24-9	Atrazine	0.95	U H	0.95	0.32
100-52-7	Benzaldehyde	0.95	U H	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U H	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U H	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U H	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U H	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U H	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW39C-060811 RE | Lab Sample ID: 240-948-4 RE

Matrix: Water | Lab File ID: 948G4A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:10

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 22:16

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U H	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U H	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	H	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U H	0.95	0.76
105-60-2	Caprolactam	4.8	U H	4.8	0.76
86-74-8	Carbazole	0.95	U H	0.95	0.27
218-01-9	Chrysene	0.19	U H	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U H	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U H	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U H	0.19	0.095
132-64-9	Dibenzofuran	0.95	U H	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U H	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U H	0.95	0.28
206-44-0	Fluoranthene	0.19	U H	0.19	0.095
86-73-7	Fluorene	0.19	U H	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U H	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U H	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U H	9.5	0.76
67-72-1	Hexachloroethane	0.95	U H	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.095
78-59-1	Isophorone	0.95	U H	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U H	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U H	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U H	0.95	0.30
91-20-3	Naphthalene	0.19	U H	0.19	0.095
98-95-3	Nitrobenzene	0.95	U H	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U H	4.8	2.3
85-01-8	Phenanthrene	0.19	U H	0.19	0.095
108-95-2	Phenol	0.95	U H	0.95	0.57
129-00-0	Pyrene	0.19	U H	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U H	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U H	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U H	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW39C-060811 RE	Lab Sample ID: 240-948-4 RE
Matrix: Water	Lab File ID: 948G4A.D
Analysis Method: 8270C	Date Collected: 06/08/2011 09:10
Extract. Method: 3520C	Date Extracted: 07/01/2011 08:52
Sample wt/vol: 1050(mL)	Date Analyzed: 07/06/2011 22:16
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7455	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	66		37-119
4165-62-2	Phenol-d5 (Surr)	71		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	69		27-111
367-12-4	2-Fluorophenol (Surr)	76		10-110
321-60-8	2-Fluorobiphenyl (Surr)	68		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	70		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40A-060811 | Lab Sample ID: 240-948-20

Matrix: Water | Lab File ID: 0705122.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:35

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 17:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40A-060811 | Lab Sample ID: 240-948-20

Matrix: Water | Lab File ID: 0705122.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:35

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 17:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	2.2	B	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW40A-060811	Lab Sample ID: 240-948-20
Matrix: Water	Lab File ID: 0705122.D
Analysis Method: 8270C	Date Collected: 06/08/2011 11:35
Extract. Method: 3520C	Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1050(mL)	Date Analyzed: 07/05/2011 17:14
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	44		37-119
4165-62-2	Phenol-d5 (Surr)	47		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	46		27-111
367-12-4	2-Fluorophenol (Surr)	47		10-110
321-60-8	2-Fluorobiphenyl (Surr)	47		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	54		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton
Job No.: 240-948-1
SDG No.:
Client Sample ID: MSA-SW40B-060811
Lab Sample ID: 240-948-21
Matrix: Water
Lab File ID: 0705129.D
Analysis Method: 8270C
Date Collected: 06/08/2011 10:40
Extract. Method: 3520C
Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1050(mL)
Date Analyzed: 07/05/2011 19:11
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40B-060811 | Lab Sample ID: 240-948-21

Matrix: Water | Lab File ID: 0705129.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:40

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 19:11

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.2	J B	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW40B-060811	Lab Sample ID: 240-948-21
Matrix: Water	Lab File ID: 0705129.D
Analysis Method: 8270C	Date Collected: 06/08/2011 10:40
Extract. Method: 3520C	Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1050(mL)	Date Analyzed: 07/05/2011 19:11
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	52		37-119
4165-62-2	Phenol-d5 (Surr)	51		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	48		27-111
367-12-4	2-Fluorophenol (Surr)	49		10-110
321-60-8	2-Fluorobiphenyl (Surr)	49		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	62		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40C-060811 | Lab Sample ID: 240-948-22

Matrix: Water | Lab File ID: 0705130.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:50

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 19:28

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40C-060811 | Lab Sample ID: 240-948-22

Matrix: Water | Lab File ID: 0705130.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:50

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 19:28

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	0.86	J B	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW40C-060811 | Lab Sample ID: 240-948-22

Matrix: Water | Lab File ID: 0705130.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:50

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 19:28

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	49		37-119
4165-62-2	Phenol-d5 (Surr)	50		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	46		27-111
367-12-4	2-Fluorophenol (Surr)	48		10-110
321-60-8	2-Fluorobiphenyl (Surr)	47		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	62		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41A-060811 | Lab Sample ID: 240-948-11

Matrix: Water | Lab File ID: 0705113.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:40

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 14:44

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41A-060811 | Lab Sample ID: 240-948-11

Matrix: Water | Lab File ID: 0705113.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:40

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 14:44

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	0.76	J B	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41A-060811 Lab Sample ID: 240-948-11

Matrix: Water Lab File ID: 0705113.D

Analysis Method: 8270C Date Collected: 06/08/2011 10:40

Extract. Method: 3520C Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) Date Analyzed: 07/05/2011 14:44

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	55		37-119
4165-62-2	Phenol-d5 (Surr)	54		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	52		27-111
367-12-4	2-Fluorophenol (Surr)	54		10-110
321-60-8	2-Fluorobiphenyl (Surr)	54		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	61		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton
Job No.: 240-948-1
SDG No.:
Client Sample ID: MSA-SW41B-060811
Lab Sample ID: 240-948-12
Matrix: Water
Lab File ID: 0707108.D
Analysis Method: 8270C
Date Collected: 06/08/2011 10:50
Extract. Method: 3520C
Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1040(mL)
Date Analyzed: 07/07/2011 09:43
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 7441
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.96	U	0.96	0.77
123-91-1	1,4-Dioxane	0.96	U	0.96	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.77
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.77
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.77
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.96	U	0.96	0.096
95-57-8	2-Chlorophenol	0.96	U	0.96	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.096
95-48-7	2-Methylphenol	0.96	U	0.96	0.77
88-74-4	2-Nitroaniline	1.9	U	1.9	0.77
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.72
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.36
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.77
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.77
106-47-8	4-Chloroaniline	1.9	U	1.9	0.77
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.77
83-32-9	Acenaphthene	0.19	U	0.19	0.096
208-96-8	Acenaphthylene	0.19	U	0.19	0.096
98-86-2	Acetophenone	0.96	U	0.96	0.33
120-12-7	Anthracene	0.19	U	0.19	0.096
1912-24-9	Atrazine	0.96	U	0.96	0.33
100-52-7	Benzaldehyde	0.96	U	0.96	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.096
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.096
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.096
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.096
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.096

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41B-060811 | Lab Sample ID: 240-948-12

Matrix: Water | Lab File ID: 0707108.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:50

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/07/2011 09:43

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7441 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.96	U	0.96	0.31
111-44-4	Bis(2-chloroethyl)ether	0.96	U	0.96	0.096
117-81-7	Bis(2-ethylhexyl) phthalate	0.89	J B	1.9	0.77
85-68-7	Butyl benzyl phthalate	0.96	U	0.96	0.77
105-60-2	Caprolactam	4.8	U	4.8	0.77
86-74-8	Carbazole	0.96	U	0.96	0.27
218-01-9	Chrysene	0.19	U	0.19	0.096
84-74-2	Di-n-butyl phthalate	0.96	U	0.96	0.64
117-84-0	Di-n-octyl phthalate	0.96	U	0.96	0.77
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.096
132-64-9	Dibenzofuran	0.96	U	0.96	0.096
84-66-2	Diethyl phthalate	0.96	U	0.96	0.58
131-11-3	Dimethyl phthalate	0.96	U	0.96	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.096
86-73-7	Fluorene	0.19	U	0.19	0.096
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.096
87-68-3	Hexachlorobutadiene	0.96	U	0.96	0.26
77-47-4	Hexachlorocyclopentadiene	9.6	U	9.6	0.77
67-72-1	Hexachloroethane	0.96	U	0.96	0.77
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096
78-59-1	Isophorone	0.96	U	0.96	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.96	U	0.96	0.77
62-75-9	N-Nitrosodimethylamine	0.96	U	0.96	0.30
86-30-6	N-Nitrosodiphenylamine	0.96	U	0.96	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.096
98-95-3	Nitrobenzene	0.96	U	0.96	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.096
108-95-2	Phenol	0.96	U	0.96	0.58
129-00-0	Pyrene	0.19	U	0.19	0.096
108-60-1	2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.77
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41B-060811 | Lab Sample ID: 240-948-12

Matrix: Water | Lab File ID: 0707108.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:50

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/07/2011 09:43

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7441 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	46		37-119
4165-62-2	Phenol-d5 (Surr)	58		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	61		27-111
367-12-4	2-Fluorophenol (Surr)	60		10-110
321-60-8	2-Fluorobiphenyl (Surr)	66		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	64		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41C-060811 | Lab Sample ID: 240-948-13

Matrix: Water | Lab File ID: 0705115.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:00

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 15:17

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.96	U	0.96	0.77
123-91-1	1,4-Dioxane	0.96	U	0.96	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.77
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.77
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.77
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.96	U	0.96	0.096
95-57-8	2-Chlorophenol	0.96	U	0.96	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.096
95-48-7	2-Methylphenol	0.96	U	0.96	0.77
88-74-4	2-Nitroaniline	1.9	U	1.9	0.77
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.72
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.36
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.77
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.77
106-47-8	4-Chloroaniline	1.9	U	1.9	0.77
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.77
83-32-9	Acenaphthene	0.19	U	0.19	0.096
208-96-8	Acenaphthylene	0.19	U	0.19	0.096
98-86-2	Acetophenone	0.96	U	0.96	0.33
120-12-7	Anthracene	0.19	U	0.19	0.096
1912-24-9	Atrazine	0.96	U	0.96	0.33
100-52-7	Benzaldehyde	0.96	U	0.96	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.096
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.096
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.096
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.096
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.096

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW41C-060811 | Lab Sample ID: 240-948-13

Matrix: Water | Lab File ID: 0705115.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:00

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 15:17

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.96	U	0.96	0.31
111-44-4	Bis(2-chloroethyl)ether	0.96	U	0.96	0.096
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.77
85-68-7	Butyl benzyl phthalate	0.96	U	0.96	0.77
105-60-2	Caprolactam	4.8	U	4.8	0.77
86-74-8	Carbazole	0.96	U	0.96	0.27
218-01-9	Chrysene	0.19	U	0.19	0.096
84-74-2	Di-n-butyl phthalate	0.96	U	0.96	0.64
117-84-0	Di-n-octyl phthalate	0.96	U	0.96	0.77
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.096
132-64-9	Dibenzofuran	0.96	U	0.96	0.096
84-66-2	Diethyl phthalate	0.96	U	0.96	0.58
131-11-3	Dimethyl phthalate	0.96	U	0.96	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.096
86-73-7	Fluorene	0.19	U	0.19	0.096
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.096
87-68-3	Hexachlorobutadiene	0.96	U	0.96	0.26
77-47-4	Hexachlorocyclopentadiene	9.6	U	9.6	0.77
67-72-1	Hexachloroethane	0.96	U	0.96	0.77
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096
78-59-1	Isophorone	0.96	U	0.96	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.96	U	0.96	0.77
62-75-9	N-Nitrosodimethylamine	0.96	U	0.96	0.30
86-30-6	N-Nitrosodiphenylamine	0.96	U	0.96	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.096
98-95-3	Nitrobenzene	0.96	U	0.96	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.096
108-95-2	Phenol	0.96	U	0.96	0.58
129-00-0	Pyrene	0.19	U	0.19	0.096
108-60-1	2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.77
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW41C-060811	Lab Sample ID: 240-948-13
Matrix: Water	Lab File ID: 0705115.D
Analysis Method: 8270C	Date Collected: 06/08/2011 11:00
Extract. Method: 3520C	Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1040(mL)	Date Analyzed: 07/05/2011 15:17
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	45		37-119
4165-62-2	Phenol-d5 (Surr)	53		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	51		27-111
367-12-4	2-Fluorophenol (Surr)	53		10-110
321-60-8	2-Fluorobiphenyl (Surr)	53		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	60		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42A-060811 | Lab Sample ID: 240-948-23

Matrix: Water | Lab File ID: 0705131.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:55

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 19:44

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42A-060811 | Lab Sample ID: 240-948-23

Matrix: Water | Lab File ID: 0705131.D

Analysis Method: 8270C | Date Collected: 06/08/2011 11:55

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 19:44

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	B	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW42A-060811	Lab Sample ID: 240-948-23
Matrix: Water	Lab File ID: 0705131.D
Analysis Method: 8270C	Date Collected: 06/08/2011 11:55
Extract. Method: 3520C	Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1050(mL)	Date Analyzed: 07/05/2011 19:44
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	49		37-119
4165-62-2	Phenol-d5 (Surr)	49		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	47		27-111
367-12-4	2-Fluorophenol (Surr)	49		10-110
321-60-8	2-Fluorobiphenyl (Surr)	49		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	62		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42B-060811 | Lab Sample ID: 240-948-24

Matrix: Water | Lab File ID: 0705132.D

Analysis Method: 8270C | Date Collected: 06/08/2011 12:05

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 20:01

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.96	U	0.96	0.77
123-91-1	1,4-Dioxane	0.96	U	0.96	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.77
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.77
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.77
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.96	U	0.96	0.096
95-57-8	2-Chlorophenol	0.96	U	0.96	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.096
95-48-7	2-Methylphenol	0.96	U	0.96	0.77
88-74-4	2-Nitroaniline	1.9	U	1.9	0.77
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.72
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.36
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.77
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.77
106-47-8	4-Chloroaniline	1.9	U	1.9	0.77
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.77
83-32-9	Acenaphthene	0.19	U	0.19	0.096
208-96-8	Acenaphthylene	0.19	U	0.19	0.096
98-86-2	Acetophenone	0.96	U	0.96	0.33
120-12-7	Anthracene	0.19	U	0.19	0.096
1912-24-9	Atrazine	0.96	U	0.96	0.33
100-52-7	Benzaldehyde	0.96	U	0.96	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.096
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.096
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.096
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.096
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.096

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42B-060811 | Lab Sample ID: 240-948-24

Matrix: Water | Lab File ID: 0705132.D

Analysis Method: 8270C | Date Collected: 06/08/2011 12:05

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 20:01

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.96	U	0.96	0.31
111-44-4	Bis(2-chloroethyl)ether	0.96	U	0.96	0.096
117-81-7	Bis(2-ethylhexyl) phthalate	1.1	J B	1.9	0.77
85-68-7	Butyl benzyl phthalate	4.0		0.96	0.77
105-60-2	Caprolactam	4.8	U	4.8	0.77
86-74-8	Carbazole	0.96	U	0.96	0.27
218-01-9	Chrysene	0.19	U	0.19	0.096
84-74-2	Di-n-butyl phthalate	0.96	U	0.96	0.64
117-84-0	Di-n-octyl phthalate	0.96	U	0.96	0.77
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.096
132-64-9	Dibenzofuran	0.96	U	0.96	0.096
84-66-2	Diethyl phthalate	0.96	U	0.96	0.58
131-11-3	Dimethyl phthalate	0.96	U	0.96	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.096
86-73-7	Fluorene	0.19	U	0.19	0.096
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.096
87-68-3	Hexachlorobutadiene	0.96	U	0.96	0.26
77-47-4	Hexachlorocyclopentadiene	9.6	U	9.6	0.77
67-72-1	Hexachloroethane	0.96	U	0.96	0.77
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096
78-59-1	Isophorone	0.96	U	0.96	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.96	U	0.96	0.77
62-75-9	N-Nitrosodimethylamine	0.96	U	0.96	0.30
86-30-6	N-Nitrosodiphenylamine	0.96	U	0.96	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.096
98-95-3	Nitrobenzene	0.96	U	0.96	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.096
108-95-2	Phenol	0.96	U	0.96	0.58
129-00-0	Pyrene	0.19	U	0.19	0.096
108-60-1	2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.77
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW42B-060811	Lab Sample ID: 240-948-24
Matrix: Water	Lab File ID: 0705132.D
Analysis Method: 8270C	Date Collected: 06/08/2011 12:05
Extract. Method: 3520C	Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1040(mL)	Date Analyzed: 07/05/2011 20:01
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	48		37-119
4165-62-2	Phenol-d5 (Surr)	49		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	45		27-111
367-12-4	2-Fluorophenol (Surr)	47		10-110
321-60-8	2-Fluorobiphenyl (Surr)	46		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	60		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42C-060811 | Lab Sample ID: 240-948-25

Matrix: Water | Lab File ID: 0705125.D

Analysis Method: 8270C | Date Collected: 06/08/2011 12:10

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1030(mL) | Date Analyzed: 07/05/2011 18:04

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.97	U	0.97	0.78
123-91-1	1,4-Dioxane	0.97	U	0.97	0.48
88-06-2	2,4,6-Trichlorophenol	4.9	U	4.9	0.78
95-95-4	2,4,5-Trichlorophenol	4.9	U	4.9	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.78
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.78
51-28-5	2,4-Dinitrophenol	4.9	U	4.9	2.3
121-14-2	2,4-Dinitrotoluene	4.9	U	4.9	0.26
91-58-7	2-Chloronaphthalene	0.97	U	0.97	0.097
95-57-8	2-Chlorophenol	0.97	U	0.97	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.097
95-48-7	2-Methylphenol	0.97	U	0.97	0.78
88-74-4	2-Nitroaniline	1.9	U	1.9	0.78
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.73
91-94-1	3,3'-Dichlorobenzidine	4.9	U	4.9	0.36
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.9	U	4.9	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.78
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.78
106-47-8	4-Chloroaniline	1.9	U	1.9	0.78
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.78
83-32-9	Acenaphthene	0.19	U	0.19	0.097
208-96-8	Acenaphthylene	0.19	U	0.19	0.097
98-86-2	Acetophenone	0.97	U	0.97	0.33
120-12-7	Anthracene	0.19	U	0.19	0.097
1912-24-9	Atrazine	0.97	U	0.97	0.33
100-52-7	Benzaldehyde	0.97	U	0.97	0.38
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.097
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.097
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.097
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.097
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.097

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton
Job No.: 240-948-1
SDG No.:
Client Sample ID: MSA-SW42C-060811
Lab Sample ID: 240-948-25
Matrix: Water
Lab File ID: 0705125.D
Analysis Method: 8270C
Date Collected: 06/08/2011 12:10
Extract. Method: 3520C
Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1030(mL)
Date Analyzed: 07/05/2011 18:04
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093
Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.97	U	0.97	0.31
111-44-4	Bis(2-chloroethyl)ether	0.97	U	0.97	0.097
117-81-7	*Bis(2-ethylhexyl) phthalate*	*73*	*E B*	*1.9*	*0.78*
85-68-7	Butyl benzyl phthalate	17		0.97	0.78
105-60-2	Caprolactam	4.9	U	4.9	0.78
86-74-8	Carbazole	0.97	U	0.97	0.27
218-01-9	Chrysene	0.19	U	0.19	0.097
84-74-2	Di-n-butyl phthalate	0.67	J	0.97	0.65
117-84-0	Di-n-octyl phthalate	0.97	U	0.97	0.78
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.097
132-64-9	Dibenzofuran	0.97	U	0.97	0.097
84-66-2	Diethyl phthalate	0.97	U	0.97	0.58
131-11-3	Dimethyl phthalate	0.97	U	0.97	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.097
86-73-7	Fluorene	0.19	U	0.19	0.097
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.097
87-68-3	Hexachlorobutadiene	0.97	U	0.97	0.26
77-47-4	Hexachlorocyclopentadiene	9.7	U	9.7	0.78
67-72-1	Hexachloroethane	0.97	U	0.97	0.78
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.097
78-59-1	Isophorone	0.97	U	0.97	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.97	U	0.97	0.78
62-75-9	N-Nitrosodimethylamine	0.97	U	0.97	0.30
86-30-6	N-Nitrosodiphenylamine	0.97	U	0.97	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.097
98-95-3	Nitrobenzene	0.97	U	0.97	0.039
87-86-5	Pentachlorophenol	4.9	U	4.9	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.097
108-95-2	Phenol	2.0		0.97	0.58
129-00-0	Pyrene	0.19	U	0.19	0.097
108-60-1	2,2'-oxybis[1-chloropropane]	0.97	U	0.97	0.39
606-20-2	2,6-Dinitrotoluene	4.9	U	4.9	0.78
100-02-7	4-Nitrophenol	4.9	U	4.9	2.3

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW42C-060811	Lab Sample ID: 240-948-25
Matrix: Water	Lab File ID: 0705125.D
Analysis Method: 8270C	Date Collected: 06/08/2011 12:10
Extract. Method: 3520C	Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1030(mL)	Date Analyzed: 07/05/2011 18:04
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	52		37-119
4165-62-2	Phenol-d5 (Surr)	49		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	44		27-111
367-12-4	2-Fluorophenol (Surr)	46		10-110
321-60-8	2-Fluorobiphenyl (Surr)	47		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	65		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW42C-060811 | Lab Sample ID: 240-948-25

Matrix: Water | Lab File ID: 0707110.D

Analysis Method: 8270C | Date Collected: 06/08/2011 12:10

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1030(mL) | Date Analyzed: 07/07/2011 10:17

Con. Extract Vol.: 2(mL) | Dilution Factor: 4

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7441 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
117-81-7	Bis(2-ethylhexyl) phthalate	160	B	7.8	3.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	65		37-119
4165-62-2	Phenol-d5 (Surr)	46		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	45		27-111
367-12-4	2-Fluorophenol (Surr)	49		10-110
321-60-8	2-Fluorobiphenyl (Surr)	54		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	63		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43A-060811 | Lab Sample ID: 240-948-17

Matrix: Water | Lab File ID: 0705119.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:20

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 16:24

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43A-060811 | Lab Sample ID: 240-948-17

Matrix: Water | Lab File ID: 0705119.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:20

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1050(mL) | Date Analyzed: 07/05/2011 16:24

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	0.91	J B	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW43A-060811	Lab Sample ID: 240-948-17
Matrix: Water	Lab File ID: 0705119.D
Analysis Method: 8270C	Date Collected: 06/08/2011 10:20
Extract. Method: 3520C	Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1050(mL)	Date Analyzed: 07/05/2011 16:24
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	44		37-119
4165-62-2	Phenol-d5 (Surr)	49		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	47		27-111
367-12-4	2-Fluorophenol (Surr)	48		10-110
321-60-8	2-Fluorobiphenyl (Surr)	49		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	57		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43B-060811 | Lab Sample ID: 240-948-18

Matrix: Water | Lab File ID: 0705120.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:25

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 16:41

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.96	U	0.96	0.77
123-91-1	1,4-Dioxane	0.96	U	0.96	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.77
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.77
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.77
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.96	U	0.96	0.096
95-57-8	2-Chlorophenol	0.96	U	0.96	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.096
95-48-7	2-Methylphenol	0.96	U	0.96	0.77
88-74-4	2-Nitroaniline	1.9	U	1.9	0.77
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.72
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.36
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.77
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.77
106-47-8	4-Chloroaniline	1.9	U	1.9	0.77
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.77
83-32-9	Acenaphthene	0.19	U	0.19	0.096
208-96-8	Acenaphthylene	0.19	U	0.19	0.096
98-86-2	Acetophenone	0.96	U	0.96	0.33
120-12-7	Anthracene	0.19	U	0.19	0.096
1912-24-9	Atrazine	0.96	U	0.96	0.33
100-52-7	Benzaldehyde	0.96	U	0.96	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.096
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.096
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.096
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.096
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.096

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43B-060811 | Lab Sample ID: 240-948-18

Matrix: Water | Lab File ID: 0705120.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:25

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 16:41

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.96	U	0.96	0.31
111-44-4	Bis(2-chloroethyl)ether	0.96	U	0.96	0.096
117-81-7	Bis(2-ethylhexyl) phthalate	1.7	J B	1.9	0.77
85-68-7	Butyl benzyl phthalate	0.96	U	0.96	0.77
105-60-2	Caprolactam	4.8	U	4.8	0.77
86-74-8	Carbazole	0.96	U	0.96	0.27
218-01-9	Chrysene	0.19	U	0.19	0.096
84-74-2	Di-n-butyl phthalate	0.96	U	0.96	0.64
117-84-0	Di-n-octyl phthalate	0.96	U	0.96	0.77
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.096
132-64-9	Dibenzofuran	0.96	U	0.96	0.096
84-66-2	Diethyl phthalate	0.96	U	0.96	0.58
131-11-3	Dimethyl phthalate	0.96	U	0.96	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.096
86-73-7	Fluorene	0.19	U	0.19	0.096
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.096
87-68-3	Hexachlorobutadiene	0.96	U	0.96	0.26
77-47-4	Hexachlorocyclopentadiene	9.6	U	9.6	0.77
67-72-1	Hexachloroethane	0.96	U	0.96	0.77
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096
78-59-1	Isophorone	0.96	U	0.96	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.96	U	0.96	0.77
62-75-9	N-Nitrosodimethylamine	0.96	U	0.96	0.30
86-30-6	N-Nitrosodiphenylamine	0.96	U	0.96	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.096
98-95-3	Nitrobenzene	0.96	U	0.96	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.096
108-95-2	Phenol	0.96	U	0.96	0.58
129-00-0	Pyrene	0.19	U	0.19	0.096
108-60-1	2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.77
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43B-060811 | Lab Sample ID: 240-948-18

Matrix: Water | Lab File ID: 0705120.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:25

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 16:41

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	47		37-119
4165-62-2	Phenol-d5 (Surr)	51		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	48		27-111
367-12-4	2-Fluorophenol (Surr)	50		10-110
321-60-8	2-Fluorobiphenyl (Surr)	50		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	58		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43C-060811 | Lab Sample ID: 240-948-19

Matrix: Water | Lab File ID: 0705121.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:30

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 16:58

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.96	U	0.96	0.77
123-91-1	1,4-Dioxane	0.96	U	0.96	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.77
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.77
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.77
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.96	U	0.96	0.096
95-57-8	2-Chlorophenol	0.96	U	0.96	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.096
95-48-7	2-Methylphenol	0.96	U	0.96	0.77
88-74-4	2-Nitroaniline	1.9	U	1.9	0.77
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.72
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.36
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.77
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.77
106-47-8	4-Chloroaniline	1.9	U	1.9	0.77
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.77
83-32-9	Acenaphthene	0.19	U	0.19	0.096
208-96-8	Acenaphthylene	0.19	U	0.19	0.096
98-86-2	Acetophenone	0.96	U	0.96	0.33
120-12-7	Anthracene	0.19	U	0.19	0.096
1912-24-9	Atrazine	0.96	U	0.96	0.33
100-52-7	Benzaldehyde	0.96	U	0.96	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.096
50-32-8	Benzo[a]pyrene	0.19	U	0.19	0.096
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.096
191-24-2	Benzo[g,h,i]perylene	0.19	U	0.19	0.096
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.096

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW43C-060811 | Lab Sample ID: 240-948-19

Matrix: Water | Lab File ID: 0705121.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:30

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1040(mL) | Date Analyzed: 07/05/2011 16:58

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.96	U	0.96	0.31
111-44-4	Bis(2-chloroethyl)ether	0.96	U	0.96	0.096
117-81-7	Bis(2-ethylhexyl) phthalate	1.7	J B	1.9	0.77
85-68-7	Butyl benzyl phthalate	0.96	U	0.96	0.77
105-60-2	Caprolactam	4.8	U	4.8	0.77
86-74-8	Carbazole	0.96	U	0.96	0.27
218-01-9	Chrysene	0.19	U	0.19	0.096
84-74-2	Di-n-butyl phthalate	0.96	U	0.96	0.64
117-84-0	Di-n-octyl phthalate	0.96	U	0.96	0.77
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.19	0.096
132-64-9	Dibenzofuran	0.96	U	0.96	0.096
84-66-2	Diethyl phthalate	0.96	U	0.96	0.58
131-11-3	Dimethyl phthalate	0.96	U	0.96	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.096
86-73-7	Fluorene	0.19	U	0.19	0.096
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.096
87-68-3	Hexachlorobutadiene	0.96	U	0.96	0.26
77-47-4	Hexachlorocyclopentadiene	9.6	U	9.6	0.77
67-72-1	Hexachloroethane	0.96	U	0.96	0.77
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U	0.19	0.096
78-59-1	Isophorone	0.96	U	0.96	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.96	U	0.96	0.77
62-75-9	N-Nitrosodimethylamine	0.96	U	0.96	0.30
86-30-6	N-Nitrosodiphenylamine	0.96	U	0.96	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.096
98-95-3	Nitrobenzene	0.96	U	0.96	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.096
108-95-2	Phenol	0.96	U	0.96	0.58
129-00-0	Pyrene	0.19	U	0.19	0.096
108-60-1	2,2'-oxybis[1-chloropropane]	0.96	U	0.96	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.77
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW43C-060811	Lab Sample ID: 240-948-19
Matrix: Water	Lab File ID: 0705121.D
Analysis Method: 8270C	Date Collected: 06/08/2011 10:30
Extract. Method: 3520C	Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1040(mL)	Date Analyzed: 07/05/2011 16:58
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7093	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	46		37-119
4165-62-2	Phenol-d5 (Surr)	50		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	46		27-111
367-12-4	2-Fluorophenol (Surr)	50		10-110
321-60-8	2-Fluorobiphenyl (Surr)	50		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	56		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44A-060811 | Lab Sample ID: 240-948-8

Matrix: Water | Lab File ID: 0629134.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:45

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 21:52

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U *	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U *	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U *	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44A-060811 | Lab Sample ID: 240-948-8

Matrix: Water | Lab File ID: 0629134.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:45

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 21:52

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U *	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U *	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U *	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW44A-060811	Lab Sample ID: 240-948-8
Matrix: Water	Lab File ID: 0629134.D
Analysis Method: 8270C	Date Collected: 06/08/2011 09:45
Extract. Method: 3520C	Date Extracted: 06/10/2011 10:54
Sample wt/vol: 1050(mL)	Date Analyzed: 06/29/2011 21:52
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 6510	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	43		37-119
4165-62-2	Phenol-d5 (Surr)	59		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	59		27-111
367-12-4	2-Fluorophenol (Surr)	60		10-110
321-60-8	2-Fluorobiphenyl (Surr)	49		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	57		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44A-060811 RE | Lab Sample ID: 240-948-8 RE

Matrix: Water | Lab File ID: 948G8A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:45

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 23:33

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U H	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U H	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U H	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U H	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U H	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U H	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U H	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U H	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U H	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U H	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U H	0.19	0.095
95-48-7	2-Methylphenol	0.95	U H	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U H	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U H	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U H	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U H	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U H	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U H	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U H	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U H	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U H	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U H	1.9	0.76
83-32-9	Acenaphthene	0.19	U H	0.19	0.095
208-96-8	Acenaphthylene	0.19	U H	0.19	0.095
98-86-2	Acetophenone	0.95	U H	0.95	0.32
120-12-7	Anthracene	0.19	U H	0.19	0.095
1912-24-9	Atrazine	0.95	U H	0.95	0.32
100-52-7	Benzaldehyde	0.95	U H	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U H	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U H	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U H	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U H	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U H	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44A-060811 RE | Lab Sample ID: 240-948-8 RE

Matrix: Water | Lab File ID: 948G8A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:45

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 23:33

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U H	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U H	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	16	H	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U H	0.95	0.76
105-60-2	Caprolactam	4.8	U H	4.8	0.76
86-74-8	Carbazole	0.95	U H	0.95	0.27
218-01-9	Chrysene	0.19	U H	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U H	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U H	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U H	0.19	0.095
132-64-9	Dibenzofuran	0.95	U H	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U H	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U H	0.95	0.28
206-44-0	Fluoranthene	0.19	U H	0.19	0.095
86-73-7	Fluorene	0.19	U H	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U H	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U H	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U H	9.5	0.76
67-72-1	Hexachloroethane	0.95	U H	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.095
78-59-1	Isophorone	0.95	U H	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U H	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U H	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U H	0.95	0.30
91-20-3	Naphthalene	0.19	U H	0.19	0.095
98-95-3	Nitrobenzene	0.95	U H	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U H	4.8	2.3
85-01-8	Phenanthrene	0.19	U H	0.19	0.095
108-95-2	Phenol	0.95	U H	0.95	0.57
129-00-0	Pyrene	0.19	U H	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U H	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U H	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U H	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44A-060811 RE Lab Sample ID: 240-948-8 RE

Matrix: Water Lab File ID: 948G8A.D

Analysis Method: 8270C Date Collected: 06/08/2011 09:45

Extract. Method: 3520C Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) Date Analyzed: 07/06/2011 23:33

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	105		37-119
4165-62-2	Phenol-d5 (Surr)	27		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	73		27-111
367-12-4	2-Fluorophenol (Surr)	74		10-110
321-60-8	2-Fluorobiphenyl (Surr)	136	X	28-110
118-79-6	2,4,6-Tribromophenol (Surr)	153	X	22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44B-060811 | Lab Sample ID: 240-948-9

Matrix: Water | Lab File ID: 0629135.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:50

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 22:09

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U *	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U *	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U *	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44B-060811 | Lab Sample ID: 240-948-9

Matrix: Water | Lab File ID: 0629135.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:50

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 22:09

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U *	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U *	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U *	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton
Job No.: 240-948-1
SDG No.:
Client Sample ID: MSA-SW44B-060811
Lab Sample ID: 240-948-9
Matrix: Water
Lab File ID: 0629135.D
Analysis Method: 8270C
Date Collected: 06/08/2011 09:50
Extract. Method: 3520C
Date Extracted: 06/10/2011 10:54
Sample wt/vol: 1050(mL)
Date Analyzed: 06/29/2011 22:09
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 6510
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	43		37-119
4165-62-2	Phenol-d5 (Surr)	56		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	57		27-111
367-12-4	2-Fluorophenol (Surr)	57		10-110
321-60-8	2-Fluorobiphenyl (Surr)	48		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	56		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44B-060811 RE | Lab Sample ID: 240-948-9 RE

Matrix: Water | Lab File ID: 948H9A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:50

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 23:52

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U H	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U H	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U H	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U H	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U H	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U H	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U H	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U H	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U H	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U H	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U H	0.19	0.095
95-48-7	2-Methylphenol	0.95	U H	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U H	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U H	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U H	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U H	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U H	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U H	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U H	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U H	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U H	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U H	1.9	0.76
83-32-9	Acenaphthene	0.19	U H	0.19	0.095
208-96-8	Acenaphthylene	0.19	U H	0.19	0.095
98-86-2	Acetophenone	0.95	U H	0.95	0.32
120-12-7	Anthracene	0.19	U H	0.19	0.095
1912-24-9	Atrazine	0.95	U H	0.95	0.32
100-52-7	Benzaldehyde	0.95	U H	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U H	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U H	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U H	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U H	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U H	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44B-060811 RE | Lab Sample ID: 240-948-9 RE

Matrix: Water | Lab File ID: 948H9A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:50

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 23:52

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U H	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U H	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	0.96	J H	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U H	0.95	0.76
105-60-2	Caprolactam	4.8	U H	4.8	0.76
86-74-8	Carbazole	0.95	U H	0.95	0.27
218-01-9	Chrysene	0.19	U H	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U H	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U H	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U H	0.19	0.095
132-64-9	Dibenzofuran	0.95	U H	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U H	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U H	0.95	0.28
206-44-0	Fluoranthene	0.19	U H	0.19	0.095
86-73-7	Fluorene	0.19	U H	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U H	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U H	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U H	9.5	0.76
67-72-1	Hexachloroethane	0.95	U H	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.095
78-59-1	Isophorone	0.95	U H	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U H	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U H	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U H	0.95	0.30
91-20-3	Naphthalene	0.19	U H	0.19	0.095
98-95-3	Nitrobenzene	0.95	U H	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U H	4.8	2.3
85-01-8	Phenanthrene	0.19	U H	0.19	0.095
108-95-2	Phenol	0.95	U H	0.95	0.57
129-00-0	Pyrene	0.19	U H	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U H	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U H	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U H	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44B-060811 RE Lab Sample ID: 240-948-9 RE

Matrix: Water Lab File ID: 948H9A.D

Analysis Method: 8270C Date Collected: 06/08/2011 09:50

Extract. Method: 3520C Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) Date Analyzed: 07/06/2011 23:52

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	74		37-119
4165-62-2	Phenol-d5 (Surr)	78		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	74		27-111
367-12-4	2-Fluorophenol (Surr)	80		10-110
321-60-8	2-Fluorobiphenyl (Surr)	73		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	79		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44C-060811 | Lab Sample ID: 240-948-10

Matrix: Water | Lab File ID: 0629136.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:00

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 22:26

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U *	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U *	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U *	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44C-060811 | Lab Sample ID: 240-948-10

Matrix: Water | Lab File ID: 0629136.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:00

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 22:26

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U *	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U *	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U *	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44C-060811 | Lab Sample ID: 240-948-10

Matrix: Water | Lab File ID: 0629136.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:00

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 22:26

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	35	X	37-119
4165-62-2	Phenol-d5 (Surr)	53		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	53		27-111
367-12-4	2-Fluorophenol (Surr)	51		10-110
321-60-8	2-Fluorobiphenyl (Surr)	41		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	48		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44C-060811 RE | Lab Sample ID: 240-948-10 RE

Matrix: Water | Lab File ID: 948G10A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:00

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/07/2011 00:12

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U H	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U H	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U H	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U H	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U H	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U H	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U H	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U H	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U H	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U H	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U H	0.19	0.095
95-48-7	2-Methylphenol	0.95	U H	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U H	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U H	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U H	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U H	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U H	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U H	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U H	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U H	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U H	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U H	1.9	0.76
83-32-9	Acenaphthene	0.19	U H	0.19	0.095
208-96-8	Acenaphthylene	0.19	U H	0.19	0.095
98-86-2	Acetophenone	0.95	U H	0.95	0.32
120-12-7	Anthracene	0.19	U H	0.19	0.095
1912-24-9	Atrazine	0.95	U H	0.95	0.32
100-52-7	Benzaldehyde	0.95	U H	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U H	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U H	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U H	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U H	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U H	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW44C-060811 RE | Lab Sample ID: 240-948-10 RE

Matrix: Water | Lab File ID: 948G10A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 10:00

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/07/2011 00:12

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U H	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U H	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	2.1	H	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U H	0.95	0.76
105-60-2	Caprolactam	4.8	U H	4.8	0.76
86-74-8	Carbazole	0.95	U H	0.95	0.27
218-01-9	Chrysene	0.19	U H	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U H	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U H	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U H	0.19	0.095
132-64-9	Dibenzofuran	0.95	U H	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U H	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U H	0.95	0.28
206-44-0	Fluoranthene	0.19	U H	0.19	0.095
86-73-7	Fluorene	0.19	U H	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U H	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U H	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U H	9.5	0.76
67-72-1	Hexachloroethane	0.95	U H	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.095
78-59-1	Isophorone	0.95	U H	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U H	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U H	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U H	0.95	0.30
91-20-3	Naphthalene	0.19	U H	0.19	0.095
98-95-3	Nitrobenzene	0.95	U H	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U H	4.8	2.3
85-01-8	Phenanthrene	0.19	U H	0.19	0.095
108-95-2	Phenol	0.95	U H	0.95	0.57
129-00-0	Pyrene	0.19	U H	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U H	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U H	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U H	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton
Job No.: 240-948-1
SDG No.:
Client Sample ID: MSA-SW44C-060811 RE
Lab Sample ID: 240-948-10 RE
Matrix: Water
Lab File ID: 948G10A.D
Analysis Method: 8270C
Date Collected: 06/08/2011 10:00
Extract. Method: 3520C
Date Extracted: 07/01/2011 08:52
Sample wt/vol: 1050(mL)
Date Analyzed: 07/07/2011 00:12
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 7455
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	79		37-119
4165-62-2	Phenol-d5 (Surr)	75		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	74		27-111
367-12-4	2-Fluorophenol (Surr)	75		10-110
321-60-8	2-Fluorobiphenyl (Surr)	72		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	79		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45A-060811 | Lab Sample ID: 240-948-5

Matrix: Water | Lab File ID: 0629131.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:20

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 21:02

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U *	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U *	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U *	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45A-060811 | Lab Sample ID: 240-948-5

Matrix: Water | Lab File ID: 0629131.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:20

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 21:02

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U *	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U *	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U *	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45A-060811 | Lab Sample ID: 240-948-5

Matrix: Water | Lab File ID: 0629131.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:20

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 21:02

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	48		37-119
4165-62-2	Phenol-d5 (Surr)	55		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	55		27-111
367-12-4	2-Fluorophenol (Surr)	53		10-110
321-60-8	2-Fluorobiphenyl (Surr)	49		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	54		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45A-060811 RE | Lab Sample ID: 240-948-5 RE

Matrix: Water | Lab File ID: 948H5A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:20

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 22:35

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U H	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U H	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U H	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U H	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U H	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U H	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U H	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U H	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U H	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U H	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U H	0.19	0.095
95-48-7	2-Methylphenol	0.95	U H	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U H	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U H	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U H	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U H	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U H	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U H	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U H	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U H	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U H	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U H	1.9	0.76
83-32-9	Acenaphthene	0.19	U H	0.19	0.095
208-96-8	Acenaphthylene	0.19	U H	0.19	0.095
98-86-2	Acetophenone	0.95	U H	0.95	0.32
120-12-7	Anthracene	0.19	U H	0.19	0.095
1912-24-9	Atrazine	0.95	U H	0.95	0.32
100-52-7	Benzaldehyde	0.95	U H	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U H	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U H	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U H	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U H	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U H	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45A-060811 RE | Lab Sample ID: 240-948-5 RE

Matrix: Water | Lab File ID: 948H5A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:20

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 22:35

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U H	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U H	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	0.99	J H	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U H	0.95	0.76
105-60-2	Caprolactam	4.8	U H	4.8	0.76
86-74-8	Carbazole	0.95	U H	0.95	0.27
218-01-9	Chrysene	0.19	U H	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U H	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U H	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U H	0.19	0.095
132-64-9	Dibenzofuran	0.95	U H	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U H	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U H	0.95	0.28
206-44-0	Fluoranthene	0.19	U H	0.19	0.095
86-73-7	Fluorene	0.19	U H	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U H	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U H	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U H	9.5	0.76
67-72-1	Hexachloroethane	0.95	U H	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.095
78-59-1	Isophorone	0.95	U H	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U H	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U H	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U H	0.95	0.30
91-20-3	Naphthalene	0.19	U H	0.19	0.095
98-95-3	Nitrobenzene	0.95	U H	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U H	4.8	2.3
85-01-8	Phenanthrene	0.19	U H	0.19	0.095
108-95-2	Phenol	0.95	U H	0.95	0.57
129-00-0	Pyrene	0.19	U H	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U H	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U H	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U H	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45A-060811 RE | Lab Sample ID: 240-948-5 RE

Matrix: Water | Lab File ID: 948H5A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:20

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 22:35

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	79		37-119
4165-62-2	Phenol-d5 (Surr)	73		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	69		27-111
367-12-4	2-Fluorophenol (Surr)	71		10-110
321-60-8	2-Fluorobiphenyl (Surr)	68		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	77		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45B-060811 | Lab Sample ID: 240-948-6

Matrix: Water | Lab File ID: 0629132.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:25

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 21:19

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U *	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U *	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U *	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45B-060811 Lab Sample ID: 240-948-6

Matrix: Water Lab File ID: 0629132.D

Analysis Method: 8270C Date Collected: 06/08/2011 09:25

Extract. Method: 3520C Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) Date Analyzed: 06/29/2011 21:19

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U *	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U *	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U *	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45B-060811 Lab Sample ID: 240-948-6

Matrix: Water Lab File ID: 0629132.D

Analysis Method: 8270C Date Collected: 06/08/2011 09:25

Extract. Method: 3520C Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) Date Analyzed: 06/29/2011 21:19

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	45		37-119
4165-62-2	Phenol-d5 (Surr)	58		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	61		27-111
367-12-4	2-Fluorophenol (Surr)	56		10-110
321-60-8	2-Fluorobiphenyl (Surr)	47		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	56		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45B-060811 RE | Lab Sample ID: 240-948-6 RE

Matrix: Water | Lab File ID: 948H6A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:25

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 22:55

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U H	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U H	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U H	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U H	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U H	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U H	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U H	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U H	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U H	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U H	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U H	0.19	0.095
95-48-7	2-Methylphenol	0.95	U H	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U H	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U H	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U H	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U H	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U H	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U H	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U H	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U H	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U H	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U H	1.9	0.76
83-32-9	Acenaphthene	0.19	U H	0.19	0.095
208-96-8	Acenaphthylene	0.19	U H	0.19	0.095
98-86-2	Acetophenone	0.95	U H	0.95	0.32
120-12-7	Anthracene	0.19	U H	0.19	0.095
1912-24-9	Atrazine	0.95	U H	0.95	0.32
100-52-7	Benzaldehyde	0.95	U H	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U H	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U H	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U H	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U H	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U H	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45B-060811 RE | Lab Sample ID: 240-948-6 RE

Matrix: Water | Lab File ID: 948H6A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:25

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 22:55

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U H	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U H	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.1	J H	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U H	0.95	0.76
105-60-2	Caprolactam	4.8	U H	4.8	0.76
86-74-8	Carbazole	0.95	U H	0.95	0.27
218-01-9	Chrysene	0.19	U H	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U H	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U H	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U H	0.19	0.095
132-64-9	Dibenzofuran	0.95	U H	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U H	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U H	0.95	0.28
206-44-0	Fluoranthene	0.19	U H	0.19	0.095
86-73-7	Fluorene	0.19	U H	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U H	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U H	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U H	9.5	0.76
67-72-1	Hexachloroethane	0.95	U H	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.095
78-59-1	Isophorone	0.95	U H	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U H	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U H	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U H	0.95	0.30
91-20-3	Naphthalene	0.19	U H	0.19	0.095
98-95-3	Nitrobenzene	0.95	U H	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U H	4.8	2.3
85-01-8	Phenanthrene	0.19	U H	0.19	0.095
108-95-2	Phenol	0.95	U H	0.95	0.57
129-00-0	Pyrene	0.19	U H	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U H	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U H	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U H	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton
Job No.: 240-948-1
SDG No.:
Client Sample ID: MSA-SW45B-060811 RE
Lab Sample ID: 240-948-6 RE
Matrix: Water
Lab File ID: 948H6A.D
Analysis Method: 8270C
Date Collected: 06/08/2011 09:25
Extract. Method: 3520C
Date Extracted: 07/01/2011 08:52
Sample wt/vol: 1050(mL)
Date Analyzed: 07/06/2011 22:55
Con. Extract Vol.: 2(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 7455
Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	77		37-119
4165-62-2	Phenol-d5 (Surr)	74		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	70		27-111
367-12-4	2-Fluorophenol (Surr)	73		10-110
321-60-8	2-Fluorobiphenyl (Surr)	68		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	76		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45C-060811 | Lab Sample ID: 240-948-7

Matrix: Water | Lab File ID: 0629133.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:35

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 21:35

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U	0.19	0.095
95-48-7	2-Methylphenol	0.95	U	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U	1.9	0.76
83-32-9	Acenaphthene	0.19	U	0.19	0.095
208-96-8	Acenaphthylene	0.19	U	0.19	0.095
98-86-2	Acetophenone	0.95	U	0.95	0.32
120-12-7	Anthracene	0.19	U	0.19	0.095
1912-24-9	Atrazine	0.95	U	0.95	0.32
100-52-7	Benzaldehyde	0.95	U *	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U *	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U *	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45C-060811 | Lab Sample ID: 240-948-7

Matrix: Water | Lab File ID: 0629133.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:35

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) | Date Analyzed: 06/29/2011 21:35

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	2.0		1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U	0.95	0.76
105-60-2	Caprolactam	4.8	U	4.8	0.76
86-74-8	Carbazole	0.95	U	0.95	0.27
218-01-9	Chrysene	0.19	U	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U *	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U *	0.19	0.095
132-64-9	Dibenzofuran	0.95	U	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U	0.95	0.28
206-44-0	Fluoranthene	0.19	U	0.19	0.095
86-73-7	Fluorene	0.19	U	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U	9.5	0.76
67-72-1	Hexachloroethane	0.95	U	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U *	0.19	0.095
78-59-1	Isophorone	0.95	U	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U	0.95	0.30
91-20-3	Naphthalene	0.19	U	0.19	0.095
98-95-3	Nitrobenzene	0.95	U	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U	4.8	2.3
85-01-8	Phenanthrene	0.19	U	0.19	0.095
108-95-2	Phenol	0.95	U	0.95	0.57
129-00-0	Pyrene	0.19	U	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45C-060811 Lab Sample ID: 240-948-7

Matrix: Water Lab File ID: 0629133.D

Analysis Method: 8270C Date Collected: 06/08/2011 09:35

Extract. Method: 3520C Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1050(mL) Date Analyzed: 06/29/2011 21:35

Con. Extract Vol.: 2(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	49		37-119
4165-62-2	Phenol-d5 (Surr)	55		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	54		27-111
367-12-4	2-Fluorophenol (Surr)	54		10-110
321-60-8	2-Fluorobiphenyl (Surr)	49		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	55		22-120

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45C-060811 RE | Lab Sample ID: 240-948-7 RE

Matrix: Water | Lab File ID: 948H7A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:35

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 23:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	0.95	U H	0.95	0.76
123-91-1	1,4-Dioxane	0.95	U H	0.95	0.47
88-06-2	2,4,6-Trichlorophenol	4.8	U H	4.8	0.76
95-95-4	2,4,5-Trichlorophenol	4.8	U H	4.8	0.29
120-83-2	2,4-Dichlorophenol	1.9	U H	1.9	0.76
105-67-9	2,4-Dimethylphenol	1.9	U H	1.9	0.76
51-28-5	2,4-Dinitrophenol	4.8	U H	4.8	2.3
121-14-2	2,4-Dinitrotoluene	4.8	U H	4.8	0.26
91-58-7	2-Chloronaphthalene	0.95	U H	0.95	0.095
95-57-8	2-Chlorophenol	0.95	U H	0.95	0.28
91-57-6	2-Methylnaphthalene	0.19	U H	0.19	0.095
95-48-7	2-Methylphenol	0.95	U H	0.95	0.76
88-74-4	2-Nitroaniline	1.9	U H	1.9	0.76
88-75-5	2-Nitrophenol	1.9	U H	1.9	0.27
15831-10-4	3 & 4 Methylphenol	1.9	U H	1.9	0.71
91-94-1	3,3'-Dichlorobenzidine	4.8	U H	4.8	0.35
99-09-2	3-Nitroaniline	1.9	U H	1.9	0.27
534-52-1	4,6-Dinitro-2-methylphenol	4.8	U H	4.8	2.3
101-55-3	4-Bromophenyl phenyl ether	1.9	U H	1.9	0.76
59-50-7	4-Chloro-3-methylphenol	1.9	U H	1.9	0.76
106-47-8	4-Chloroaniline	1.9	U H	1.9	0.76
7005-72-3	4-Chlorophenyl phenyl ether	1.9	U H	1.9	0.29
100-01-6	4-Nitroaniline	1.9	U H	1.9	0.76
83-32-9	Acenaphthene	0.19	U H	0.19	0.095
208-96-8	Acenaphthylene	0.19	U H	0.19	0.095
98-86-2	Acetophenone	0.95	U H	0.95	0.32
120-12-7	Anthracene	0.19	U H	0.19	0.095
1912-24-9	Atrazine	0.95	U H	0.95	0.32
100-52-7	Benzaldehyde	0.95	U H	0.95	0.37
56-55-3	Benzo[a]anthracene	0.19	U H	0.19	0.095
50-32-8	Benzo[a]pyrene	0.19	U H	0.19	0.095
205-99-2	Benzo[b]fluoranthene	0.19	U H	0.19	0.095
191-24-2	Benzo[g,h,i]perylene	0.19	U H	0.19	0.095
207-08-9	Benzo[k]fluoranthene	0.19	U H	0.19	0.095

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45C-060811 RE | Lab Sample ID: 240-948-7 RE

Matrix: Water | Lab File ID: 948H7A.D

Analysis Method: 8270C | Date Collected: 06/08/2011 09:35

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1050(mL) | Date Analyzed: 07/06/2011 23:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	0.95	U H	0.95	0.30
111-44-4	Bis(2-chloroethyl)ether	0.95	U H	0.95	0.095
117-81-7	Bis(2-ethylhexyl) phthalate	1.9	U H	1.9	0.76
85-68-7	Butyl benzyl phthalate	0.95	U H	0.95	0.76
105-60-2	Caprolactam	4.8	U H	4.8	0.76
86-74-8	Carbazole	0.95	U H	0.95	0.27
218-01-9	Chrysene	0.19	U H	0.19	0.095
84-74-2	Di-n-butyl phthalate	0.95	U H	0.95	0.64
117-84-0	Di-n-octyl phthalate	0.95	U H	0.95	0.76
53-70-3	Dibenzo(a,h)anthracene	0.19	U H	0.19	0.095
132-64-9	Dibenzofuran	0.95	U H	0.95	0.095
84-66-2	Diethyl phthalate	0.95	U H	0.95	0.57
131-11-3	Dimethyl phthalate	0.95	U H	0.95	0.28
206-44-0	Fluoranthene	0.19	U H	0.19	0.095
86-73-7	Fluorene	0.19	U H	0.19	0.095
118-74-1	Hexachlorobenzene	0.19	U H	0.19	0.095
87-68-3	Hexachlorobutadiene	0.95	U H	0.95	0.26
77-47-4	Hexachlorocyclopentadiene	9.5	U H	9.5	0.76
67-72-1	Hexachloroethane	0.95	U H	0.95	0.76
193-39-5	Indeno[1,2,3-cd]pyrene	0.19	U H	0.19	0.095
78-59-1	Isophorone	0.95	U H	0.95	0.26
621-64-7	N-Nitrosodi-n-propylamine	0.95	U H	0.95	0.76
62-75-9	N-Nitrosodimethylamine	0.95	U H	0.95	0.30
86-30-6	N-Nitrosodiphenylamine	0.95	U H	0.95	0.30
91-20-3	Naphthalene	0.19	U H	0.19	0.095
98-95-3	Nitrobenzene	0.95	U H	0.95	0.038
87-86-5	Pentachlorophenol	4.8	U H	4.8	2.3
85-01-8	Phenanthrene	0.19	U H	0.19	0.095
108-95-2	Phenol	0.95	U H	0.95	0.57
129-00-0	Pyrene	0.19	U H	0.19	0.095
108-60-1	2,2'-oxybis[1-chloropropane]	0.95	U H	0.95	0.38
606-20-2	2,6-Dinitrotoluene	4.8	U H	4.8	0.76
100-02-7	4-Nitrophenol	4.8	U H	4.8	2.3

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton	Job No.: 240-948-1
SDG No.:	
Client Sample ID: MSA-SW45C-060811 RE	Lab Sample ID: 240-948-7 RE
Matrix: Water	Lab File ID: 948H7A.D
Analysis Method: 8270C	Date Collected: 06/08/2011 09:35
Extract. Method: 3520C	Date Extracted: 07/01/2011 08:52
Sample wt/vol: 1050(mL)	Date Analyzed: 07/06/2011 23:14
Con. Extract Vol.: 2(mL)	Dilution Factor: 1
Injection Volume: 1(uL)	Level: (low/med) Low
% Moisture:	GPC Cleanup:(Y/N) N
Analysis Batch No.: 7455	Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	83		37-119
4165-62-2	Phenol-d5 (Surr)	78		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	74		27-111
367-12-4	2-Fluorophenol (Surr)	75		10-110
321-60-8	2-Fluorobiphenyl (Surr)	71		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	80		22-120

Appendix C

Support Documentation

CASE NARRATIVE

Client: <client here>

Project: MSA Surface Water

Report Number: 240-948-1

With the 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. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/09/2011; the samples arrived in good condition, except as noted below. Samples were properly preserved and on ice. The temperatures of the coolers at receipt were 3.9, 5.2, 1.9, 3.9, 5.6, 4.8, 5.1, 3.9.

One liter container for the following sample(s) was received broken or leaking: MSA-SW40A-060811 (240-948-20), MSA-SW41C-060811 (240-948-13), MSA-SW42A-060811 (240-948-23), MSA-SW42C-060811 (240-948-25).

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/22/2011.

1,2,3-Trichlorobenzene and Naphthalene were detected in method blank MB 240-5551/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Trichlorofluoromethane failed the recovery criteria high for LCS 240-5551/4.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS and MSD of sample MSA-SW43C-060811MS (240-948-19) in batch 240-5679. Refer to the QC report for details.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/10/2011, 06/11/2011 and 07/01/2011 and analyzed on 06/29/2011, 07/05/2011, 07/06/2011 and 07/07/2011.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out

and no corrective action is required.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 240-4415/21-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Acetophenone and Benzaldehyde were detected in method blank MB 240-6848/20-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for MSA-SW44C-060811 (240-948-10) and MSA-SW38B-060811 (240-948-15). Refer to the QC report for details.

Internal standard responses were outside of acceptance limits for the following sample(s): MSA-SW44A-060811 (240-948-8). The sample(s) shows evidence of matrix interference.

The LCS associated with prep batch 4330 had several analyte recoveries below acceptance criteria. Upon reextraction and reanalysis all QC met acceptance criteria, however, sample holding times had been exceeded. Both sets of data have been reported. Benzo(a)pyrene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Di-n-octyl phthalate and Indeno[1,2,3-cd]pyrene failed the recovery criteria low for LCS 240-4330/22-A. Benzaldehyde failed the recovery criteria high. Refer to the QC report for details.

Sample MSA-SW42C-060811 (240-948-25)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for batches 4330, 4415 & 6848.

No other difficulties were encountered during the semivolatiles analyses.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples were filtered in the laboratory, and analyzed for metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 06/30/2011 and analyzed on 06/30/2011 and 07/01/2011.

Several analytes were detected in method blank PB 200-20520/1-C, PB 200-20521/1-B, 200-20577/1-A, 200-20579/1-A, 200-20583/1-A and 200-20593/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

The serial dilution performed for the following sample(s) was outside control limits for lead: MSA-SW40A-060811(240-948-20 SD) & MSA-SW37C-060811 (240-948-28 SD).

The ICSAB for batch 20787 exceeded the acceptance limits for element: tungsten.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

MERCURY (CVAA)

Samples were analyzed for total and dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 06/30/2011 and analyzed on 07/01/2011.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact

Company Name: Tetra Tech	Client Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Lab Contact:
Address: 20251 Century Blvd Ste 200	Telephone: 3012338230	Telephone: 3012338230	Telephone:
City/State/Zip: Germantown, MD. 20874	Email: tony.apanavage@tetratech.com	Analysis Turnaround Time (in BUS days)	COC No: 009886
Phone: 3015283021		TAT if different from below ____	1 of 3 COCs
Project Name: SURFACE WATER SAMPLING MSA	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	For lab use only: Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Number: 112IC03292	Shipping/Tracking No:		Job/SDG No:
PO#			

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other: Ice	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: 40ml VOA Vial HCl VOC's	1 Liter Amber Glass SVOC/1,4-Dioxane	250 ml Poly Perchlorate	500 ml Poly HNO3 Total PPM	500 ml Poly None Dissolved PPM							Sample Specific Notes / Special Instructions:
TB-060811	6/8/11	0700		✓						✓							2	2										
MSA-SW39A-060811	6/8/11	0900		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW39B-060811	6/8/11	0905		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW39C-060811	6/8/11	0910		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW45A-060811	6/8/11	0920		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW45B-060811	6/8/11	0925		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW45C-060811	6/8/11	0935		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW44A-060811	6/8/11	0945		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW44B-060811	6/8/11	0950		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW44C-060811	6/8/11	1000		✓					✓	✓				✓			3	2	1	1	1							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:
LAB TO FILTER DISSOLVED METALS.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TTNUS	6/8/11 1540	[signature]	TA INC	6/8/11 15:47
William C. Seng	TA INC	06/09/11 17:30			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[signature]	TA	6/9/11 9:30

TAL 0018-1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: TetraTech	Client Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Lab Contact:	COC No: 009888
Address: 20251 Century Blvd Ste 200	Telephone: 301 233 8230	Telephone: 301 233 8230	Telephone:	2 of 3 COCs
City/State/Zip: Germantown, MD, 20874	Email: tony.apanavage@tetratech.com	Analysis Turnaround Time (In BUS days)		For lab use only
Phone: 301 528 3021		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client: ☐ Lab sampling: ☐
Project Name: SURFACE WATER SAMPLING MSA	Method of Shipment/Carrier:			
Project Number: 112IC03292	Shipping/Tracking No:			Job/SDG No.:
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAcNaOH	Unpres	Other: ECE	Filtered Sample (Y/N)	Composite C / Grab G	Analyses: 40 ml VOA Vial HCl VOC's	1 Liter Amber Glass SVOC's 1,4-Dioxane	250 ml Poly Perchlorate	500 ml Poly HNO3 Total RCRA	500 ml Poly None Dissolved RCRA						Sample Specific Notes / Special Instructions:
MSA-SW41A-060811	6/8/11	1040		✓					✓	✓				✓			3	2	1	1	1						
MSA-SW41B-060811	6/8/11	1050		✓					✓	✓				✓			3	2	1	1	1						
MSA-SW41C-060811	6/8/11	1100		✓					✓	✓				✓			3	2	1	1	1						
MSA-SW38A-060811	6/8/11	1105		✓					✓	✓				✓			3	2	1	1	1						
MSA-SW38B-060811	6/8/11	1110		✓					✓	✓				✓			3	2	1	1	1						
MSA-SW38C-060811	6/8/11	1120		✓					✓	✓				✓			3	2	1	1	1						
MSA-SW43A-060811	6/8/11	1020		✓					✓	✓				✓			3	2	1	1	1						
MSA-SW43B-060811	6/8/11	1025		✓					✓	✓				✓			3	2	1	1	1						
MSA-SW43C-060811	6/8/11	1030		✓					✓	✓				✓			3	2	1	1	1						
MSA-SW40A-060811	6/8/11	1135		✓					✓	✓				✓			3	2	1	1	1						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:
LAB TO FILTER DISSOLVED METALS

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TetraTech NUS	6/8/11 1540	[signature]	TA WC	06/08/11 1542
William Q Sea	TA WC	06/08/11 17:30			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[signature]	TA	6/9/11 930

Chain of Custody Record

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: ______

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other ______

TestAmerica Laboratories, Inc.

COC No: 009887

3 of 3 COCs

Client Contact			
Company Name: Tetra Tech	Client Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Lab Contact:
Address: 20251 Century Blvd Ste 200	Telephone: 301 233 8230	Telephone: 3012338230	Telephone:
City/State/Zip: Germantown, MD 20874	Email: tony.apanavage@tetratech.com	Analysis Turnaround Time (in BUS days)	
Phone: 301528 3021		TAT if different from below ______ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	
Project Name: SURFACE WATER SAMPLING MSA	Method of Shipment/Carrier:		
Project Number: 112IC03292	Shipping/Tracking No:		
PO#			

For lab use only: Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C/Grab=G	40ml VOA Vial VOC's	1 Liter Amber Glass SVOC's 1,4 Dioxane	250 Poly Perchlorate	500 ml Poly HNO3 Total PPM	500ml Poly None Dissoved PPM	Sample Specific Notes / Special Instructions:
MSA-SW40B-060811	6/8/11	1040		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW40C-060811	6/8/11	1150		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW42A-060811	6/8/11	1155		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW42B-060811	6/8/11	1205		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW42C-060811	6/8/11	1210		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW37A-060811	6/8/11	1316		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW37B-060811	6/8/11	1323		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW37C-060811	6/8/11	1328		✓					✓	✓				✓			3	2	1	1	1	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For ______ Months

Special Instructions/QC Requirements & Comments:

LAB TO FILTER DISSOLVED METALS

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TTNUS	6/8/11 1540	William [signature]	TA Inc.	06/08/11 15:42
William C. [signature]	TA Inc	06/08/11 17:30			
			Received in Laboratory by: [signature]	TA	6/9/11 930

TAL 0018-1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 240-948
North Canton Facility

Client Tetra Tech Project SURFACE WATER By: Matt Allen (Signature)
Cooler Received on 6/9/11 Opened on 9 JUN 2011
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # BACK Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other
1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
If YES, Quantity 2 Quantity Unsalvageable
Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
Were custody seals on the bottle(s)? Yes ☐ No ☒
If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other PLASTIC BAG
6. Cooler temperature upon receipt BACK °C See back of form for multiple coolers/temps ☒
METHOD: IR ☒ Other ☐
COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☐ No ☒
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐
Contacted PM PJO Date 9 JUN 2011 by CSL VIA MAF via Verbal ☐ Voice Mail ☐ Other ☒
Concerning #15 AS BELOW

14. CHAIN OF CUSTODY
The following discrepancies occurred:

15. SAMPLE CONDITION
Sample(s) were received after the recommended holding time had expired.
Sample(s) AMBER LITER EACH (41c) (42c) (40A) 42A DISPOSED were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION
Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preserved added to sample(s)?

Client ID	pH	Date	Initials
39A	≤2	9 JUN 2011	MAF
39B	≤2		
39C	≤2		
45A	≤2		
45B	≤2		
45C	≤2		
44A	≤2		
44B	≤2		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
44C	12	9 JUN 2011	MAF
41A	12		
41B	12		
41C	12		
38A	12		
38B	12		
38C	12		
43A	12		
43B	12		
43C	12		
40A	12		
40B	12		
40C	12		
42A	12		
42B	12		
42C	12		
37A	12		
37B	12		
37C	12		

Cooler #	Temp. °C	Method	Coolant
Client Cooler	3.9°C	IR	ICE
	5.2°C		
	1.9°C		
	3.9°C		
	5.6°C		
	4.8°C		
	5.1°C		
	3.9°C		

Discrepancies Cont'd:

Login Sample Receipt Checklist

Client: Tetra Tech NUS Inc

Job Number: 240-948-1

Login Number: 948
List Number: 1
Creator: Livengood, Chris

List Source: TestAmerica North Canton

Question	Answer	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	3.9 5.2 1.9 3.9 5.6 4.8 5.1 3.9
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	
Is the Field Sampler's name present on COC?	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.	False	1XL BROKE FOR SAMPLES SW41C,SW40A,SW42A,AND SW42C
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech NUS Inc

Job Number: 240-948-1

Login Number: 948
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington
List Creation: 06/29/11 11:12 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	19.1,19.6°C IR GUN ID 96/CF=0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
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	
Sample Preservation Verified.	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	
Multiphasic samples are not present.	False	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	Check done at department level as required.

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PCL	UG/L	MSA-SW37B-060811	240-948-27	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW37C-060811	240-948-28	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW38A-060811	240-948-14	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW41C-060811	240-948-13	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW38C-060811	240-948-16	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW39B-060811	240-948-3	NM	06/08/2011	06/21/2011	06/21/2011	13	0	13
PCL	UG/L	MSA-SW39C-060811	240-948-4	NM	06/08/2011	06/21/2011	06/21/2011	13	0	13
PCL	UG/L	MSA-SW40A-060811	240-948-20	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW40B-060811	240-948-21	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW40C-060811	240-948-22	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW41B-060811	240-948-12	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW38B-060811	240-948-15	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
OS	UG/L	MSA-SW45B-060811	240-948-6	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21
OS	UG/L	MSA-SW44B-060811	240-948-9	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21
OS	UG/L	MSA-SW45C-060811	240-948-7	NM	06/08/2011	07/01/2011	07/06/2011	23	5	28
OS	UG/L	MSA-SW45C-060811	240-948-7	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21
OS	UG/L	MSA-SW45B-060811	240-948-6	NM	06/08/2011	07/01/2011	07/06/2011	23	5	28
OS	UG/L	MSA-SW39A-060811	240-948-2	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	MSA-SW40B-060811	240-948-21	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW40A-060811	240-948-20	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW39C-060811	240-948-4	NM	06/08/2011	07/01/2011	07/06/2011	23	5	28
OS	UG/L	MSA-SW39C-060811	240-948-4	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21
OS	UG/L	MSA-SW39B-060811	240-948-3	NM	06/08/2011	07/01/2011	07/06/2011	23	5	28
OS	UG/L	MSA-SW44C-060811	240-948-10	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21
OS	UG/L	MSA-SW39A-060811	240-948-2	NM	06/08/2011	07/01/2011	07/06/2011	23	5	28
OS	UG/L	MSA-SW41B-060811	240-948-12	NM	06/08/2011	06/11/2011	07/07/2011	3	26	29
OS	UG/L	MSA-SW38C-060811	240-948-16	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW38B-060811	240-948-15	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW38A-060811	240-948-14	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW37C-060811	240-948-28	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW37B-060811	240-948-27	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW37A-060811	240-948-26	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW39B-060811	240-948-3	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21
OS	UG/L	MSA-SW43A-060811	240-948-17	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW45A-060811	240-948-5	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21
OS	UG/L	MSA-SW44C-060811	240-948-10	NM	06/08/2011	07/01/2011	07/07/2011	23	6	29

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OS	UG/L	MSA-SW44B-060811	240-948-9	NM	06/08/2011	07/01/2011	07/06/2011	23	5	28
OS	UG/L	MSA-SW44A-060811	240-948-8	NM	06/08/2011	07/01/2011	07/06/2011	23	5	28
OS	UG/L	MSA-SW44A-060811	240-948-8	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21
OS	UG/L	MSA-SW40C-060811	240-948-22	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW43B-060811	240-948-18	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW41A-060811	240-948-11	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW42C-060811	240-948-25	NM	06/08/2011	06/11/2011	07/07/2011	3	26	29
OS	UG/L	MSA-SW42C-060811	240-948-25	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW42B-060811	240-948-24	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW42A-060811	240-948-23	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW41C-060811	240-948-13	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OS	UG/L	MSA-SW45A-060811	240-948-5	NM	06/08/2011	07/01/2011	07/06/2011	23	5	28
OS	UG/L	MSA-SW43C-060811	240-948-19	NM	06/08/2011	06/11/2011	07/05/2011	3	24	27
OV	UG/L	MSA-SW38B-060811	240-948-15	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW42A-060811	240-948-23	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW37A-060811	240-948-26	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW37B-060811	240-948-27	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW37C-060811	240-948-28	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	MSA-SW38A-060811	240-948-14	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW38C-060811	240-948-16	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW39B-060811	240-948-3	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW39C-060811	240-948-4	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW40A-060811	240-948-20	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW40B-060811	240-948-21	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW40C-060811	240-948-22	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW41A-060811	240-948-11	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW39A-060811	240-948-2	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW41C-060811	240-948-13	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	TB-060811	240-948-1	TB	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW42B-060811	240-948-24	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW42C-060811	240-948-25	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW43A-060811	240-948-17	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW43B-060811	240-948-18	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW43C-060811	240-948-19	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW44A-060811	240-948-8	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW44B-060811	240-948-9	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
OV	UG/L	MSA-SW44C-060811	240-948-10	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW45A-060811	240-948-5	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW45B-060811	240-948-6	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW45C-060811	240-948-7	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	TB-060811	240-948-1	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14
OV	UG/L	MSA-SW41B-060811	240-948-12	NM	06/08/2011	06/22/2011	06/22/2011	14	0	14

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: BFB4169.D BFB Injection Date: 06/14/2011

Instrument ID: A3UX10 BFB Injection Time: 11:23

Analysis Batch No.: 4668

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.6	
75	30.0 - 60.0 % of mass 95	50.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.6	(0.7)1
174	50.0 - 120.00 % of mass 95	84.3	
175	5.0 - 9.0 % of mass 174	6.0	(7.1)1
176	95.0 - 101.0 % of mass 174	82.2	(97.5)1
177	5.0 - 9.0 % of mass 176	5.1	(6.2)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-4668/2	UXX2316.D	06/14/2011	11:47
	STD8260 240-4668/3	UXX2317.D	06/14/2011	12:09
	STD8260 240-4668/4	UXX2318.D	06/14/2011	12:30
	STD8260 240-4668/5	UXX2319.D	06/14/2011	12:52
	STD8260 240-4668/6	UXX2320.D	06/14/2011	13:13
	STD8260 240-4668/7	UXX2321.D	06/14/2011	13:34
	STD1 240-4668/8	UXX2322.D	06/14/2011	13:56
	STD2 240-4668/9	UXX2323.D	06/14/2011	14:18
	STD3 240-4668/10	UXX2324.D	06/14/2011	14:39
	STD4 240-4668/11	UXX2325.D	06/14/2011	15:01
	STD5 240-4668/12	UXX2326.D	06/14/2011	15:22
	STD6 240-4668/13	UXX2327.D	06/14/2011	15:43
	ICV 240-4668/14	UXX2328.D	06/14/2011	16:06

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 4668

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2011 11:47 Calibration End Date: 06/14/2011 13:34 Calibration ID: 1489

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-4668/7	UXX2321.D
Level 2	STD8260 240-4668/6	UXX2320.D
Level 3	STD8260 240-4668/5	UXX2319.D
Level 4	STD8260 240-4668/4	UXX2318.D
Level 5	STD8260 240-4668/3	UXX2317.D
Level 6	STD8260 240-4668/2	UXX2316.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1892 0.1967	0.1818	0.1897	0.1870	0.1843	Ave		0.1881				2.7		15.0			
Chloromethane	0.3373 0.2726	0.3035	0.3055	0.2976	0.2919	Ave		0.3014			0.1000	7.0		15.0			
Vinyl chloride	0.3112 0.2841	0.2964	0.2999	0.2991	0.3044	Ave		0.2992				3.0		15.0			
Bromomethane	0.1220 0.0994	0.1014	0.1084	0.0836	0.0886	Ave		0.1005				14.0		15.0			
Chloroethane	0.2072 0.1669	0.1774	0.1787	0.1681	0.1757	Ave		0.1790				8.2		15.0			
Trichlorofluoromethane	0.1643 0.1658	0.1374	0.1488	0.1292	0.1369	Ave		0.1470				10.0		15.0			
Acrolein	0.0287 0.0330	0.0306	0.0321	0.0331	0.0349	Ave		0.0321 NT				6.7		15.0			
1,1-Dichloroethene	0.2123 0.2197	0.2153	0.2222	0.2241	0.2266	Ave		0.2200				2.5		15.0			
Acetone	0.1217 0.0687	0.0969	0.0854	0.0774	0.0774	Lin1	0.1135	0.0702							0.9970		0.9900
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.1472 0.1559	0.1372	0.1478	0.1318	0.1362	Ave		0.1427				6.3		15.0			
Iodomethane	0.3278 0.3023	0.3340	0.3366	0.3217	0.3213	Ave		0.3239				3.8		15.0			
Carbon disulfide	0.6046 0.6654	0.6194	0.6465	0.6442	0.6538	Ave		0.6390				3.5		15.0			
Acetonitrile	0.0338 0.0311	0.0339	0.0328	0.0319	0.0333	Ave		0.0328 NT				3.4		15.0			
Methyl acetate	0.1862 0.1769	0.1927	0.1827	0.1830	0.1921	Ave		0.1856				3.3		15.0			
Methylene Chloride	0.7151 0.2539	0.4695	0.3436	0.3047	0.2825	Lin1	0.4667	0.2490							0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 4668

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2011 11:47 Calibration End Date: 06/14/2011 13:34 Calibration ID: 1489

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
tert-Butyl alcohol	0.0146 0.0141	0.0153	0.0145	0.0150	0.0155	Ave		0.0148				3.4		15.0			
Acrylonitrile	0.0908 0.0914	0.0896	0.0938	0.0941	0.0973	Ave		0.0928				3.0		15.0			
Methyl tert-butyl ether	0.5757 0.6248	0.5953	0.6046	0.6389	0.6661	Ave		0.6176				5.3		15.0			
trans-1,2-Dichloroethene	0.2428 0.2420	0.2517	0.2549	0.2596	0.2596	Ave		0.2518				3.1		15.0			
Hexane	0.0390 0.0558	0.0500	0.0495	0.0492	0.0512	Ave		0.0491 NT				11.0		15.0			
1,1-Dichloroethane	0.4290 0.4242	0.4440	0.4433	0.4503	0.4592	Ave		0.4417			0.1000	3.0		15.0			
Vinyl acetate	0.0179 0.0289	0.0185	0.0234	0.0260	0.0290	Lin1	-0.016	0.0290							0.9980		0.9900
2-Butanone	0.0997 0.0820	0.0925	0.0885	0.0863	0.0874	Ave		0.0894				6.8		15.0			
cis-1,2-Dichloroethene	0.2471 0.2529	0.2568	0.2630	0.2659	0.2720	Ave		0.2596				3.5		15.0			
2,2-Dichloropropane	0.1797 0.2049	0.1938	0.2013	0.2087	0.2168	Ave		0.2009				6.4		15.0			
Bromochloromethane	0.1220 0.1176	0.1267	0.1212	0.1253	0.1273	Ave		0.1233				3.0		15.0			
Tetrahydrofuran	0.0802 0.0573	0.0692	0.0597	0.0617	0.0602	Ave		0.0647				13.0		15.0			
Chloroform	0.4270 0.4043	0.4229	0.4281	0.4319	0.4373	Ave		0.4253				2.7		15.0			
1,1,1-Trichloroethane	0.2790 0.2867	0.2793	0.2929	0.2969	0.3021	Ave		0.2895				3.3		15.0			
Cyclohexane	0.3385 0.4381	0.3650	0.3892	0.4064	0.4191	Ave		0.3927				9.3		15.0			
1,1-Dichloropropene	0.2741 0.3104	0.2874	0.3024	0.3121	0.3192	Ave		0.3009				5.7		15.0			
Carbon tetrachloride	0.1713 0.2310	0.1744	0.1984	0.2092	0.2233	Ave		0.2013				12.0		15.0			
1,2-Dichloroethane	0.3115 0.3071	0.3249	0.3175	0.3210	0.3267	Ave		0.3181				2.4		15.0			
Benzene	0.9813 0.9473	0.9798	0.9580	0.9851	0.9991	Ave		0.9751				1.9		15.0			
Trichloroethene	0.2247 0.2195	0.2281	0.2244	0.2285	0.2293	Ave		0.2257				1.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 4668

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2011 11:47 Calibration End Date: 06/14/2011 13:34 Calibration ID: 1489

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloropropane	0.2131 0.2207	0.2186	0.2207	0.2281	0.2306	Ave		0.2220				2.9		15.0			
Methylcyclohexane	0.3048 0.4370	0.3352	0.3712	0.3832	0.4042	Ave		0.3726				13.0		15.0			
Dibromomethane	0.1229 0.1248	0.1324	0.1268	0.1305	0.1305	Ave		0.1280				2.9		15.0			
1,4-Dioxane	0.0020 0.0020	0.0023	0.0023	0.0024	0.0024	Ave		0.0022 NT				8.7		15.0			
Bromodichloromethane	0.2193 0.2595	0.2377	0.2413	0.2508	0.2637	Ave		0.2454				6.6		15.0			
2-Chloroethyl vinyl ether	0.0801 0.1136	0.0905	0.0968	0.1075	0.1158	Ave		0.1007				14.0		15.0			
cis-1,3-Dichloropropene	0.2280 0.3132	0.2618	0.2739	0.3029	0.3146	Ave		0.2824				12.0		15.0			
4-Methyl-2-pentanone	0.1345 0.1681	0.1413	0.1518	0.1628	0.1743	Ave		0.1554				10.0		15.0			
Toluene	1.1665 1.3048	1.2588	1.3059	1.3721	1.3777	Ave		1.2976				6.0		15.0			
trans-1,3-Dichloropropene	0.2488 0.3731	0.2979	0.3238	0.3606	0.3762	Ave		0.3301				15.0		15.0			
Ethyl methacrylate	0.2181 0.3264	0.2455	0.2796	0.3100	0.3367	Lin1	-0.146	0.3317							0.9990		0.9900
1,1,2-Trichloroethane	0.2347 0.2366	0.2508	0.2484	0.2596	0.2547	Ave		0.2474				4.0		15.0			
1,3-Dichloropropane	0.4270 0.4485	0.4472	0.4575	0.4758	0.4726	Ave		0.4548				4.0		15.0			
Tetrachloroethene	0.2417 0.2499	0.2513	0.2631	0.2655	0.2636	Ave		0.2559				3.8		15.0			
2-Hexanone	0.1152 0.1415	0.1280	0.1419	0.1520	0.1533	Ave		0.1387				11.0		15.0			
Dibromochloromethane	0.1979 0.2520	0.2046	0.2161	0.2378	0.2486	Ave		0.2261				10.0		15.0			
1,2-Dibromoethane	0.2210 0.2376	0.2384	0.2394	0.2528	0.2526	Ave		0.2403				4.9		15.0			
Chlorobenzene	0.8752 0.8471	0.9024	0.8821	0.9065	0.9006	Ave		0.8856			0.3000	2.5		15.0			
1,1,1,2-Tetrachloroethane	0.2584 0.2971	0.2768	0.2820	0.2978	0.3085	Ave		0.2868				6.3		15.0			
Ethylbenzene	0.3772 0.4695	0.4253	0.4450	0.4786	0.4915	Ave		0.4478				9.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 4668

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2011 11:47 Calibration End Date: 06/14/2011 13:34 Calibration ID: 1489

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
m-Xylene & p-Xylene	0.4563 0.6068	0.5473	0.5908	0.6225	0.6354	Ave		0.5765				12.0		15.0			
o-Xylene	0.4519 0.6123	0.5233	0.5720	0.6245	0.6446	Ave		0.5714				13.0		15.0			
Styrene	0.6925 1.0020	0.8309	0.9178	1.0100	1.0502	Ave		0.9172				15.0		15.0			
Bromoform	0.1116 0.1595	0.1317	0.1294	0.1467	0.1590	Ave		0.1396			0.1000	13.0		15.0			
Isopropylbenzene	1.1084 1.6116	1.2887	1.4465	1.5712	1.6704	Ave		1.4495				15.0		15.0			
1,1,2,2-Tetrachloroethane	0.5452 0.5312	0.5636	0.5509	0.5713	0.5662	Ave		0.5547			0.3000	2.7		15.0			
Bromobenzene	0.5229 0.5578	0.5611	0.5787	0.5882	0.5909	Ave		0.5666				4.5		15.0			
1,2,3-Trichloropropane	0.1751 0.1670	0.1811	0.1787	0.1771	0.1775	Ave		0.1761				2.8		15.0			
trans-1,4-Dichloro-2-butene	0.1235 0.1483	0.1353	0.1321	0.1439	0.1484	Ave		0.1386				7.2		15.0			
n-Propylbenzene	0.4578 0.6438	0.5573	0.6219	0.6585	0.6656	Ave		0.6008				13.0		15.0			
2-Chlorotoluene	0.4781 0.5601	0.5240	0.5690	0.5900	0.5912	Ave		0.5521				7.9		15.0			
1,3,5-Trimethylbenzene	1.3894 2.0809	1.7312	1.9607	2.0982	2.1629	Ave		1.9039				15.0		15.0			
4-Chlorotoluene	0.5018 0.5827	0.5691	0.6093	0.6219	0.6180	Ave		0.5838				7.7		15.0			
tert-Butylbenzene	1.1929 1.8077	1.4422	1.6181	1.7660	2.0819	Lin1	-0.814	1.9059							0.9940		0.9900
1,2,4-Trimethylbenzene	1.4761 2.1145	1.8321	2.0584	2.1723	2.2655	Ave		1.9865				15.0		15.0			
sec-Butylbenzene	1.7529 2.6066	2.1456	2.3874	2.5313	2.6744	Ave		2.3497				15.0		15.0			
1,3-Dichlorobenzene	1.1569 1.1565	1.2360	1.2224	1.2360	1.2579	Ave		1.2109				3.6		15.0			
p-Isopropyltoluene	1.4796 2.2465	1.8209	2.0670	2.2171	2.3396	Lin1	-0.874	2.3016							0.9990		0.9900
1,4-Dichlorobenzene	1.2935 1.2167	1.3335	1.2881	1.3251	1.3134	Ave		1.2950				3.3		15.0			
n-Butylbenzene	1.3675 1.9918	1.6270	1.7815	1.9578	2.0763	Ave		1.8003				15.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 4668

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2011 11:47 Calibration End Date: 06/14/2011 13:34 Calibration ID: 1489

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	1.1387 1.1438	1.2472	1.2354	1.2437	1.2577	Ave		1.2111				4.5		15.0			
1,2-Dibromo-3-Chloropropane	0.0746 0.0914	0.0788	0.0838	0.0869	0.0985	Ave		0.0857				10.0		15.0			
1,3,5-Trichlorobenzene	0.8485 0.8452	0.8931	0.8738	0.8933	0.9403	Ave		0.8824				4.0		15.0			
1,2,4-Trichlorobenzene	0.7049 0.7600	0.7723	0.7549	0.7846	0.8472	Ave		0.7707				6.0		15.0			
Hexachlorobutadiene	0.3520 0.3214	0.3563	0.3468	0.3404	0.3462	Ave		0.3439				3.6		15.0			
Naphthalene	1.2084 1.7286	1.4463	1.5843	1.8064	2.0327	Lin1	-0.675	1.8453							0.9930		0.9900
1,2,3-Trichlorobenzene	0.6867 0.6757	0.7825	0.7576	0.7795	0.8084	Ave		0.7484				7.3		15.0			
Dibromofluoromethane (Surr)	0.1923 0.1966	0.2047	0.2041	0.2055	0.2060	Ave		0.2016				2.8		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2656 0.2572	0.2743	0.2569	0.2649	0.2696	Ave		0.2647				2.6		15.0			
Toluene-d8 (Surr)	0.9717 1.0700	0.9841	1.0809	1.1112	1.1016	Ave		1.0532				5.7		15.0			
4-Bromofluorobenzene (Surr)	0.3777 0.4149	0.3867	0.4164	0.4466	0.4366	Ave		0.4131				6.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 4668

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2011 13:56 Calibration End Date: 06/14/2011 15:43 Calibration ID: 1491

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD6 240-4668/13	UXX2327.D
Level 2	STD5 240-4668/12	UXX2326.D
Level 3	STD4 240-4668/11	UXX2325.D
Level 4	STD3 240-4668/10	UXX2324.D
Level 5	STD2 240-4668/9	UXX2323.D
Level 6	STD1 240-4668/8	UXX2322.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorofluoromethane	0.3668 0.3592	0.3661	0.3879	0.3803	0.3654	Ave		0.3710				2.9		15.0			
Ethyl ether	0.2199 0.2027	0.2087	0.2070	0.2037	0.2020	Ave		0.2073				3.2		15.0			
3-Chloro-1-propene	0.0994 0.1243	0.1025	0.1063	0.1170	0.1201	Ave		0.1116				9.2		15.0			
Diisopropyl ether	0.1676 0.2124	0.1789	0.1894	0.2027	0.2064	Ave		0.1929				9.0		15.0			
2-Chloro-1,3-butadiene	0.3192 0.3652	0.3254	0.3406	0.3582	0.3637	Ave		0.3454				5.8		15.0			
Ethyl-t-butyl ether (ETBE)	0.4964 0.6420	0.5306	0.5488	0.5909	0.6190	Ave		0.5713				9.7		15.0			
Propionitrile	0.0302 0.0312	0.0315	0.0326	0.0304	0.0312	Ave		0.0312	NT			2.7		15.0			
Ethyl acetate	0.1886 0.1675	0.1837	0.1606	0.1653	0.1555	Ave		0.1702				7.7		15.0			
Methacrylonitrile	0.1147 0.1218	0.1172	0.1300	0.1262	0.1194	Ave		0.1216				4.7		15.0			
Isobutyl alcohol	0.0095 0.0095	0.0107	0.0105	0.0095	0.0092	Ave		0.0098	NT			6.3		15.0			
Tert-amyl-methyl ether (TAME)	0.3921 0.5421	0.4181	0.4484	0.4906	0.5133	Ave		0.4674				12.0		15.0			
n-Heptane	0.0386 0.0480	0.0422	0.0458	0.0472	0.0457	Ave		0.0446	NT			7.9		15.0			
n-Butanol	0.0056 0.0073	0.0068	0.0072	0.0069	0.0071	Ave		0.0068	NT			9.2		15.0			
Methyl methacrylate	0.1249 0.1522	0.1372	0.1392	0.1327	0.1403	Ave		0.1377				6.6		15.0			
2-Nitropropane	0.0306 0.0376	0.0311	0.0292	0.0309	0.0324	Ave		0.0320	NT			9.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 4668

SDG No.:

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/14/2011 13:56 Calibration End Date: 06/14/2011 15:43 Calibration ID: 1491

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Butyl acetate	0.0911 0.1678	0.1020	0.1212	0.1273	0.1538	Lin1	-0.222	0.1619							0.9920		0.9900
Cyclohexanone	0.0391 0.0576	0.0448	0.0545	0.0547	0.0590	Ave		0.0516				15.0		15.0			
1,2,3-Trimethylbenzene	1.6069 2.5260	1.7155	1.9492	2.2905	2.4281	Lin1	-1.338	2.5041							0.9980		0.9900
2-Methylnaphthalene	0.5337 0.9727	0.6470	0.9302	1.1148	1.2672	Qua	-4.037	1.5847	-0.007						0.9960		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: BFB4175.D BFB Injection Date: 06/21/2011

Instrument ID: A3UX10 BFB Injection Time: 22:19

Analysis Batch No.: 5551

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.1	
75	30.0 - 60.0 % of mass 95	50.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.1	(0.1)1
174	50.0 - 120.00 % of mass 95	83.4	
175	5.0 - 9.0 % of mass 174	6.1	(7.3)1
176	95.0 - 101.0 % of mass 174	80.4	(96.4)1
177	5.0 - 9.0 % of mass 176	5.4	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-5551/2	UXX2501.D	06/21/2011	22:41
	CCV 240-5551/3	UXX2502.D	06/21/2011	23:03
	LCS 240-5551/4	UXX2503.D	06/21/2011	23:24
	MB 240-5551/5	UXX2504.D	06/21/2011	23:46
MSA-SW40B-060811	240-948-21	UXX2505.D	06/22/2011	00:07
MSA-SW40C-060811	240-948-22	UXX2506.D	06/22/2011	00:29
MSA-SW42A-060811	240-948-23	UXX2507.D	06/22/2011	00:50
MSA-SW42B-060811	240-948-24	UXX2508.D	06/22/2011	01:12
MSA-SW42C-060811	240-948-25	UXX2509.D	06/22/2011	01:33
MSA-SW37A-060811	240-948-26	UXX2510.D	06/22/2011	01:55
MSA-SW37B-060811	240-948-27	UXX2511.D	06/22/2011	02:17
MSA-SW37C-060811	240-948-28	UXX2512.D	06/22/2011	02:38
	240-1036-C-2 MS	UXX2515.D	06/22/2011	03:42
	240-1036-F-2 MSD	UXX2516.D	06/22/2011	04:03

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCVIS 240-5551/2 Calibration Date: 06/21/2011 22:41

Instrument ID: A3UX10 Calib Start Date: 06/14/2011 11:47

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/14/2011 13:34

Lab File ID: UXX2501.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1881	0.2225		0.0118	0.0100	18.3	50.0
Chloromethane	Ave	0.3014	0.3389	0.1000	0.0112	0.0100	12.4	50.0
Vinyl chloride	Ave	0.2992	0.2912		0.00973	0.0100	-2.7	20.0
Bromomethane	Ave	0.1005	0.0820		0.00816	0.0100	-18.4	50.0
Chloroethane	Ave	0.1790	0.1604		0.00896	0.0100	-10.4	50.0
Trichlorofluoromethane	Ave	0.1470	0.2671		0.0182	0.0100	81.6*	50.0
Acrolein	Ave	0.0321	0.0370 NT		0.116	0.100	15.6	50.0
1,1-Dichloroethene	Ave	0.2200	0.2197		0.00998	0.0100	-0.2	20.0
Acetone	Lin1		0.0854		0.0227	0.0200	13.5	50.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.1427	0.1627		0.0114	0.0100	14.0	50.0
Iodomethane	Ave	0.3239	0.2771		0.00855	0.0100	-14.5	50.0
Carbon disulfide	Ave	0.6390	0.6027		0.00943	0.0100	-5.7	50.0
Acetonitrile	Ave	0.0328	0.0299 NT		0.0911	0.100	-8.9	50.0
Methyl acetate	Ave	0.1856	0.1885		0.0203	0.0200	1.5	50.0
Methylene Chloride	Lin1		0.2870		0.00965	0.0100	-3.5	50.0
tert-Butyl alcohol	Ave	0.0148	0.0159		0.214	0.200	6.8	50.0
Acrylonitrile	Ave	0.0928	0.0994		0.0214	0.0200	7.1	50.0
Methyl tert-butyl ether	Ave	0.6176	0.6211		0.0101	0.0100	0.6	50.0
trans-1,2-Dichloroethene	Ave	0.2518	0.2408		0.00956	0.0100	-4.4	50.0
Hexane	Ave	0.0491	0.0496 NT		0.0101	0.0100	1.0	20.0
1,1-Dichloroethane	Ave	0.4417	0.4305	0.1000	0.00975	0.0100	-2.5	50.0
Vinyl acetate	Lin1		0.0331		0.0120	0.0100	20.0	50.0
2-Butanone	Ave	0.0894	0.1022		0.0229	0.0200	14.3	50.0
cis-1,2-Dichloroethene	Ave	0.2596	0.2516		0.00969	0.0100	-3.1	50.0
2,2-Dichloropropane	Ave	0.2009	0.1608		0.00801	0.0100	-19.9	50.0
Bromochloromethane	Ave	0.1233	0.1254		0.0102	0.0100	1.6	50.0
Chloroform	Ave	0.4253	0.4104		0.00965	0.0100	-3.5	20.0
Tetrahydrofuran	Ave	0.0647	0.0617		0.00954	0.0100	-4.6	50.0
1,1,1-Trichloroethane	Ave	0.2895	0.2743		0.00947	0.0100	-5.3	50.0
Cyclohexane	Ave	0.3927	0.3507		0.00893	0.0100	-10.7	50.0
1,1-Dichloropropene	Ave	0.3009	0.3016		0.0100	0.0100	0.2	50.0
Carbon tetrachloride	Ave	0.2013	0.2492		0.0124	0.0100	23.8	50.0
1,2-Dichloroethane	Ave	0.3181	0.3383		0.0106	0.0100	6.4	50.0
Benzene	Ave	0.9751	0.9747		0.0100	0.0100	-0.0	50.0
Trichloroethene	Ave	0.2257	0.2332		0.0103	0.0100	3.3	50.0
1,2-Dichloropropane	Ave	0.2220	0.2348		0.0106	0.0100	5.8	20.0
Methylcyclohexane	Ave	0.3726	0.3381		0.00907	0.0100	-9.3	50.0
1,4-Dioxane	Ave	0.0022	0.0022 NT		0.505	0.500	1.1	50.0
Dibromomethane	Ave	0.1280	0.1388		0.0108	0.0100	8.4	50.0
Bromodichloromethane	Ave	0.2454	0.2738		0.0112	0.0100	11.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCVIS 240-5551/2 Calibration Date: 06/21/2011 22:41

Instrument ID: A3UX10 Calib Start Date: 06/14/2011 11:47

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/14/2011 13:34

Lab File ID: UXX2501.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloroethyl vinyl ether	Ave	0.1007	0.1327		0.0264	0.0200	31.8	50.0
cis-1,3-Dichloropropene	Ave	0.2824	0.3120		0.0110	0.0100	10.5	50.0
4-Methyl-2-pentanone	Ave	0.1554	0.2005		0.0258	0.0200	29.0	50.0
Toluene	Ave	1.298	1.281		0.00987	0.0100	-1.3	20.0
trans-1,3-Dichloropropene	Ave	0.3301	0.3460		0.0105	0.0100	4.8	50.0
Ethyl methacrylate	Lin1		0.3298		0.0104	0.0100	4.0	50.0
1,1,2-Trichloroethane	Ave	0.2474	0.2632		0.0106	0.0100	6.3	50.0
1,3-Dichloropropane	Ave	0.4548	0.4856		0.0107	0.0100	6.8	50.0
Tetrachloroethene	Ave	0.2559	0.2419		0.00945	0.0100	-5.5	50.0
2-Hexanone	Ave	0.1387	0.1671		0.0241	0.0200	20.5	50.0
Dibromochloromethane	Ave	0.2261	0.2445		0.0108	0.0100	8.1	50.0
1,2-Dibromoethane	Ave	0.2403	0.2551		0.0106	0.0100	6.1	50.0
Chlorobenzene	Ave	0.8856	0.8411	0.3000	0.00950	0.0100	-5.0	50.0
1,1,1,2-Tetrachloroethane	Ave	0.2868	0.2710		0.00945	0.0100	-5.5	50.0
Ethylbenzene	Ave	0.4478	0.4275		0.00955	0.0100	-4.5	20.0
m-Xylene & p-Xylene	Ave	0.5765	0.5616		0.0195	0.0200	-2.6	50.0
o-Xylene	Ave	0.5714	0.5390		0.00943	0.0100	-5.7	50.0
Styrene	Ave	0.9172	0.9128		0.00995	0.0100	-0.5	50.0
Bromoform	Ave	0.1396	0.1513	0.1000	0.0108	0.0100	8.3	50.0
Isopropylbenzene	Ave	1.449	1.296		0.00894	0.0100	-10.6	50.0
1,1,2,2-Tetrachloroethane	Ave	0.5547	0.5717	0.3000	0.0103	0.0100	3.0	50.0
Bromobenzene	Ave	0.5666	0.5629		0.00993	0.0100	-0.7	50.0
1,2,3-Trichloropropane	Ave	0.1761	0.1861		0.0106	0.0100	5.7	50.0
trans-1,4-Dichloro-2-butene	Ave	0.1386	0.1180		0.00851	0.0100	-14.9	50.0
n-Propylbenzene	Ave	0.6008	0.5862		0.00976	0.0100	-2.4	50.0
2-Chlorotoluene	Ave	0.5521	0.5328		0.00965	0.0100	-3.5	50.0
1,3,5-Trimethylbenzene	Ave	1.904	1.836		0.00964	0.0100	-3.6	50.0
4-Chlorotoluene	Ave	0.5838	0.5719		0.00980	0.0100	-2.0	50.0
tert-Butylbenzene	Lin1		1.468		0.00813	0.0100	-18.7	50.0
1,2,4-Trimethylbenzene	Ave	1.986	1.904		0.00959	0.0100	-4.1	50.0
sec-Butylbenzene	Ave	2.350	2.123		0.00904	0.0100	-9.6	50.0
1,3-Dichlorobenzene	Ave	1.211	1.110		0.00917	0.0100	-8.3	50.0
p-Isopropyltoluene	Lin1		1.840		0.00837	0.0100	-16.3	50.0
1,4-Dichlorobenzene	Ave	1.295	1.166		0.00900	0.0100	-10.0	50.0
n-Butylbenzene	Ave	1.800	1.520		0.00844	0.0100	-15.6	50.0
1,2-Dichlorobenzene	Ave	1.211	1.094		0.00904	0.0100	-9.6	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.0857	0.0820		0.00957	0.0100	-4.3	50.0
1,3,5-Trichlorobenzene	Ave	0.8824	0.6502		0.00737	0.0100	-26.3 M	50.0
1,2,4-Trichlorobenzene	Ave	0.7707	0.5260		0.00683	0.0100	-31.7	50.0
Hexachlorobutadiene	Ave	0.3439	0.2069		0.00602	0.0100	-39.8	50.0
Naphthalene	Lin1		1.119		0.00643	0.0100	-35.7	50.0

FORM VII 8260B

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCVIS 240-5551/2 Calibration Date: 06/21/2011 22:41

Instrument ID: A3UX10 Calib Start Date: 06/14/2011 11:47

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/14/2011 13:34

Lab File ID: UXX2501.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichlorobenzene	Ave	0.7484	0.4698		0.00628	0.0100	-37.2	50.0
Dibromofluoromethane (Surr)	Ave	0.2016	0.1884		0.0113	0.0120	-6.5	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2647	0.2434		0.0111	0.0120	-8.1	50.0
Toluene-d8 (Surr)	Ave	1.053	1.003		0.0115	0.0120	-4.7	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4131	0.4057		0.0118	0.0120	-1.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-5551/3 Calibration Date: 06/21/2011 23:03

Instrument ID: A3UX10 Calib Start Date: 06/14/2011 11:47

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/14/2011 13:34

Lab File ID: UXX2502.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2016	0.1794		0.0107	0.0120	-11.0	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2647	0.2360		0.0107	0.0120	-10.9	50.0
Toluene-d8 (Surr)	Ave	1.053	0.9742		0.0111	0.0120	-7.5	50.0
4-Bromofluorobenzene (Surr)	Ave	0.4131	0.3916		0.0114	0.0120	-5.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-5551/3 Calibration Date: 06/21/2011 23:03

Instrument ID: A3UX10 Calib Start Date: 06/14/2011 13:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/14/2011 15:43

Lab File ID: UXX2502.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorofluoromethane	Ave	0.3710	0.3522		0.00949	0.0100	-5.1	50.0
Ethyl ether	Ave	0.2073	0.2062		0.00994	0.0100	-0.6	50.0
3-Chloro-1-propene	Ave	0.1116	0.1085		0.00973	0.0100	-2.7	50.0
Diisopropyl ether	Ave	0.1929	0.2001		0.0519	0.0500	3.7	50.0
2-Chloro-1,3-butadiene	Ave	0.3454	0.3390		0.00981	0.0100	-1.9	50.0
Ethyl-t-butyl ether (ETBE)	Ave	0.5713	0.5711		0.0100	0.0100	-0.0	50.0
Ethyl acetate	Ave	0.1702	0.1777		0.0209	0.0200	4.4	50.0
Propionitrile	Ave	0.0312	0.0318	NT	0.0204	0.0200	2.0	50.0
Methacrylonitrile	Ave	0.1216	0.1338		0.0110	0.0100	10.0	50.0
Isobutyl alcohol	Ave	0.0098	0.0092	NT	0.188	0.200	-6.2	50.0
Tert-amyl-methyl ether (TAME)	Ave	0.4674	0.4817		0.0103	0.0100	3.1	50.0
n-Heptane	Ave	0.0446	0.0432	NT	0.00968	0.0100	-3.2	50.0
n-Butanol	Ave	0.0068	0.0064	NT	0.189	0.200	-5.5	50.0
Methyl methacrylate	Ave	0.1377	0.1639		0.0119	0.0100	19.0	50.0
2-Nitropropane	Ave	0.0320	0.0407	NT	0.0254	0.0200	27.2	50.0
Cyclohexanone	Ave	0.0516	0.0177	NT	0.0342	0.100	-65.8*	NT 50.0
1,2,3-Trimethylbenzene	Lin1		1.925		0.00822	0.0100	-17.8	50.0
2-Methylnaphthalene	Qua		0.3496		0.00719	0.0200	-64.1*	NT 50.0

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: UXX2504.D Lab Sample ID: MB 240-5551/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX10 Date Analyzed: 06/21/2011 23:46

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-5551/4	UXX2503.D	06/21/2011 23:24
MSA-SW40B-060811	240-948-21	UXX2505.D	06/22/2011 00:07
MSA-SW40C-060811	240-948-22	UXX2506.D	06/22/2011 00:29
MSA-SW42A-060811	240-948-23	UXX2507.D	06/22/2011 00:50
MSA-SW42B-060811	240-948-24	UXX2508.D	06/22/2011 01:12
MSA-SW42C-060811	240-948-25	UXX2509.D	06/22/2011 01:33
MSA-SW37A-060811	240-948-26	UXX2510.D	06/22/2011 01:55
MSA-SW37B-060811	240-948-27	UXX2511.D	06/22/2011 02:17
MSA-SW37C-060811	240-948-28	UXX2512.D	06/22/2011 02:38
	240-1036-C-2 MS	UXX2515.D	06/22/2011 03:42
	240-1036-F-2 MSD	UXX2516.D	06/22/2011 04:03

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-5551/5

Matrix: Water Lab File ID: UXX2504.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/21/2011 23:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-5551/5

Matrix: Water | Lab File ID: UXX2504.D

Analysis Method: 8260B | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/21/2011 23:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5551 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	0.691	J	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	0.349	J	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-5551/5

Matrix: Water Lab File ID: UXX2504.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/21/2011 23:46

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5551 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	87		66-117
1868-53-7	Dibromofluoromethane (Surr)	96		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		63-129
2037-26-5	Toluene-d8 (Surr)	91		74-115

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX2503.D

Lab ID: LCS 240-5551/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	19.7	99	43-136	
Benzene	10.0	10.0	100	83-112	
Bromobenzene	10.0	10.3	103	76-115	
Bromochloromethane	10.0	9.69	97	77-120	
Bromodichloromethane	10.0	10.6	106	72-121	
Bromoform	10.0	10.2	102	40-131	
Bromomethane	10.0	11.2	112	11-185	
2-Butanone	20.0	21.2	106	60-126	
Carbon disulfide	10.0	9.86	99	62-142	
Carbon tetrachloride	10.0	12.5	125	66-128	
Chlorobenzene	10.0	9.35	94	85-110	
Chloroethane	10.0	10.1	101	25-153	
2-Chloroethyl vinyl ether	10.0	11.9	119	52-131	
Chloroform	10.0	9.82	98	79-117	
Chloromethane	10.0	9.05	91	44-126	
2-Chlorotoluene	10.0	9.88	99	76-116	
4-Chlorotoluene	10.0	9.79	98	77-115	
cis-1,2-Dichloroethene	10.0	9.60	96	80-113	
cis-1,3-Dichloropropene	10.0	10.1	101	61-115	
Dibromochloromethane	10.0	10.3	103	64-119	
1,2-Dibromo-3-Chloropropane	10.0	8.92	89	42-136	
1,2-Dibromoethane	10.0	10.4	104	79-113	
Dibromomethane	10.0	10.6	106	81-120	
1,2-Dichlorobenzene	10.0	8.65	87	81-110	
1,3-Dichlorobenzene	10.0	9.00	90	80-110	
1,4-Dichlorobenzene	10.0	8.87	89	82-110	
Dichlorodifluoromethane	10.0	8.64	86	19-129	
1,1-Dichloroethane	10.0	9.81	98	82-115	
1,2-Dichloroethane	10.0	10.5	105	71-127	
1,1-Dichloroethene	10.0	10.2	102	78-131	
1,2-Dichloropropane	10.0	10.6	106	81-115	
1,3-Dichloropropane	10.0	10.4	104	79-116	
2,2-Dichloropropane	10.0	8.16	82	50-129	
1,1-Dichloropropene	10.0	10.1	101	83-114	
Diisopropyl ether	10.0	10.5	105	77-118	
Ethylbenzene	10.0	9.50	95	83-112	
Hexachlorobutadiene	10.0	5.45	55	36-134	
2-Hexanone	20.0	23.7	119	55-133	
Isopropylbenzene	10.0	8.64	86	75-114	
Methylene Chloride	10.0	9.91	99	66-131	
4-Methyl-2-pentanone	20.0	23.9	120	63-128	
Methyl tert-butyl ether	10.0	9.63	96	52-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX2503.D

Lab ID: LCS 240-5551/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	20.0	19.0	95	83-113	
Naphthalene	10.0	6.12	61	32-141	
n-Butylbenzene	10.0	8.21	82	66-125	
n-Propylbenzene	10.0	10.2	102	74-121	
o-Xylene	10.0	9.35	94	83-113	
p-Isopropyltoluene	10.0	8.25	83	74-120	
sec-Butylbenzene	10.0	8.71	87	70-117	
Styrene	10.0	9.75	98	79-114	
tert-Butyl alcohol	200	185	92	70-130	
tert-Butylbenzene	10.0	8.17	82	71-115	
1,1,1,2-Tetrachloroethane	10.0	9.39	94	72-116	
1,1,2,2-Tetrachloroethane	10.0	10.6	106	68-118	
Tetrachloroethene	10.0	9.43	94	79-114	
Toluene	10.0	10.0	100	84-111	
trans-1,2-Dichloroethene	10.0	9.60	96	83-117	
trans-1,3-Dichloropropene	10.0	10.4	104	58-117	
1,2,3-Trichlorobenzene	10.0	5.94	59	54-126	
1,2,4-Trichlorobenzene	10.0	6.27	63	48-135	
1,1,1-Trichloroethane	10.0	9.68	97	74-118	
Trichloroethene	10.0	9.98	100	76-117	
Trichlorofluoromethane	10.0	19.1	191	49-157	*
1,2,3-Trichloropropane	10.0	11.0	110	73-129	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	12.2	122	74-151	
1,2,3-Trimethylbenzene	10.0	8.21	82	70-130	
1,2,4-Trimethylbenzene	10.0	9.47	95	76-120	
Vinyl acetate	10.0	11.3	113	46-161	
Vinyl chloride	10.0	9.36	94	53-127	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: BFB684B.D BFB Injection Date: 06/22/2011

Instrument ID: A3UX11 BFB Injection Time: 12:31

Analysis Batch No.: 5679

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.3	
75	30.0 - 60.0 % of mass 95	52.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.1	(0.2)1
174	50.0 - 120.00 % of mass 95	65.2	
175	5.0 - 9.0 % of mass 174	4.8	(7.4)1
176	95.0 - 101.0 % of mass 174	63.7	(97.6)1
177	5.0 - 9.0 % of mass 176	4.2	(6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 240-5679/2	UXJ8021.D	06/22/2011	12:58
	CCV 240-5679/3	UXJ8022.D	06/22/2011	13:21
	LCS 240-5679/4	UXJ8023.D	06/22/2011	13:44
	MB 240-5679/5	UXJ8024.D	06/22/2011	14:08
TB-060811	240-948-1	UXJ8025.D	06/22/2011	14:30
MSA-SW39A-060811	240-948-2	UXJ8026.D	06/22/2011	14:53
MSA-SW39B-060811	240-948-3	UXJ8027.D	06/22/2011	15:16
MSA-SW39C-060811	240-948-4	UXJ8028.D	06/22/2011	15:39
MSA-SW45A-060811	240-948-5	UXJ8029.D	06/22/2011	16:02
MSA-SW45B-060811	240-948-6	UXJ8030.D	06/22/2011	16:25
MSA-SW45C-060811	240-948-7	UXJ8031.D	06/22/2011	16:48
MSA-SW44A-060811	240-948-8	UXJ8032.D	06/22/2011	17:11
MSA-SW44B-060811	240-948-9	UXJ8033.D	06/22/2011	17:34
MSA-SW44C-060811	240-948-10	UXJ8034.D	06/22/2011	17:57
MSA-SW41A-060811	240-948-11	UXJ8035.D	06/22/2011	18:20
MSA-SW41B-060811	240-948-12	UXJ8036.D	06/22/2011	18:43
MSA-SW41C-060811	240-948-13	UXJ8037.D	06/22/2011	19:06
MSA-SW38A-060811	240-948-14	UXJ8038.D	06/22/2011	19:29
MSA-SW38B-060811	240-948-15	UXJ8039.D	06/22/2011	19:52
MSA-SW38C-060811	240-948-16	UXJ8040.D	06/22/2011	20:15
MSA-SW43A-060811	240-948-17	UXJ8041.D	06/22/2011	20:38
MSA-SW43B-060811	240-948-18	UXJ8042.D	06/22/2011	21:01
MSA-SW43C-060811	240-948-19	UXJ8043.D	06/22/2011	21:24
MSA-SW40A-060811	240-948-20	UXJ8044.D	06/22/2011	21:47
MSA-SW43C-060811 MS	240-948-19 MS	UXJ8045.D	06/22/2011	22:10
MSA-SW43C-060811 MSD	240-948-19 MSD	UXJ8046.D	06/22/2011	22:33

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCVIS 240-5679/2 Calibration Date: 06/22/2011 12:58

Instrument ID: A3UX11 Calib Start Date: 06/21/2011 14:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/21/2011 16:07

Lab File ID: UXJ8021.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.1263	0.1380		0.0109	0.0100	9.3	50.0
Chloromethane	Ave	0.1883	0.1968	0.1000	0.0105	0.0100	4.5	50.0
Vinyl chloride	Ave	0.1924	0.1946		0.0101	0.0100	1.1	20.0
Bromomethane	Ave	0.0762	0.0711		0.00933	0.0100	-6.7	50.0
Chloroethane	Ave	0.0838	0.0857		0.0102	0.0100	2.3	50.0
Trichlorofluoromethane	Ave	0.2186	0.2220		0.0102	0.0100	1.5	50.0
Acrolein	Ave	0.0458	0.0454 NT		0.0991	0.100	-0.9	50.0
1,1-Dichloroethene	Ave	0.1870	0.2045		0.0109	0.0100	9.3	20.0
Acetone	Lin1		0.0906		0.0214	0.0200	7.0	50.0
1,1,2-Trichloro-1,2,2-trichfluoroethane	Ave	0.0868	0.0894		0.0103	0.0100	2.9	50.0
Iodomethane	Ave	0.2397	0.2654		0.0111	0.0100	10.7	50.0
Carbon disulfide	Ave	0.5968	0.6749		0.0113	0.0100	13.1	50.0
Acetonitrile	Ave	0.0332	0.0339 NT		0.102	0.100	1.9	50.0
Methyl acetate	Ave	0.2487	0.2481		0.0199	0.0200	-0.3	50.0
Methylene Chloride	Lin1		0.2861		0.0105	0.0100	5.0	50.0
tert-Butyl alcohol	Ave	0.0189	0.0189		0.200	0.200	-0.1	50.0
Acrylonitrile	Ave	0.1172	0.1182		0.0202	0.0200	0.8	50.0
Methyl tert-butyl ether	Ave	0.7801	0.8121		0.0104	0.0100	4.1	50.0
trans-1,2-Dichloroethene	Ave	0.2646	0.2828		0.0107	0.0100	6.9	50.0
Hexane	Ave	0.0643	0.0677		0.0105	0.0100	5.3	20.0
1,1-Dichloroethane	Ave	0.5225	0.5596	0.1000	0.0107	0.0100	7.1	50.0
Vinyl acetate	Lin1		0.0544		0.00933	0.0100	-6.7	50.0
2-Butanone	Ave	0.1423	0.1427		0.0201	0.0200	0.3	50.0
2,2-Dichloropropane	Ave	0.2444	0.2409		0.00986	0.0100	-1.4	50.0
cis-1,2-Dichloroethene	Ave	0.2869	0.3099		0.0108	0.0100	8.0	50.0
Bromochloromethane	Ave	0.1232	0.1354		0.0110	0.0100	9.9	50.0
Tetrahydrofuran	Ave	0.0952	0.1023		0.0107	0.0100	7.5	50.0
Chloroform	Ave	0.4734	0.5172		0.0109	0.0100	9.3	20.0
1,1,1-Trichloroethane	Ave	0.3439	0.3649		0.0106	0.0100	6.1	50.0
Cyclohexane	Ave	0.4463	0.4617		0.0103	0.0100	3.4	50.0
1,1-Dichloropropene	Ave	0.4021	0.4373		0.0109	0.0100	8.7	50.0
Carbon tetrachloride	Ave	0.2835	0.3092		0.0109	0.0100	9.1	50.0
1,2-Dichloroethane	Ave	0.4051	0.4392		0.0108	0.0100	8.4	50.0
Benzene	Ave	1.223	1.292		0.0106	0.0100	5.7	50.0
Trichloroethene	Ave	0.2614	0.2755		0.0105	0.0100	5.4	50.0
Methylcyclohexane	Ave	0.4158	0.4349		0.0105	0.0100	4.6	50.0
1,2-Dichloropropane	Ave	0.3209	0.3349		0.0104	0.0100	4.4	20.0
Dibromomethane	Ave	0.1633	0.1775		0.0109	0.0100	8.7	50.0
1,4-Dioxane	Ave	0.0022	0.0024 NT		0.550	0.500	10.1	50.0
Bromodichloromethane	Ave	0.3473	0.3826		0.0110	0.0100	10.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCVIS 240-5679/2 Calibration Date: 06/22/2011 12:58

Instrument ID: A3UX11 Calib Start Date: 06/21/2011 14:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/21/2011 16:07

Lab File ID: UXJ8021.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloroethyl vinyl ether	Ave	0.2095	0.2091		0.0200	0.0200	-0.2	50.0
cis-1,3-Dichloropropene	Ave	0.4464	0.4890		0.0110	0.0100	9.5	50.0
4-Methyl-2-pentanone	Ave	0.2952	0.3115		0.0211	0.0200	5.5	50.0
Toluene	Ave	1.910	2.039		0.0107	0.0100	6.7	20.0
trans-1,3-Dichloropropene	Ave	0.5782	0.6256		0.0108	0.0100	8.2	50.0
Ethyl methacrylate	Ave	0.6015	0.6242		0.0104	0.0100	3.8	50.0
1,1,2-Trichloroethane	Ave	0.3677	0.3878		0.0105	0.0100	5.5	50.0
1,3-Dichloropropane	Ave	0.7350	0.7637		0.0104	0.0100	3.9	50.0
Tetrachloroethene	Ave	0.2845	0.2971		0.0104	0.0100	4.4	50.0
2-Hexanone	Ave	0.2877	0.2975		0.0207	0.0200	3.4	50.0
Dibromochloromethane	Ave	0.3254	0.3823		0.0117	0.0100	17.5	50.0
1,2-Dibromoethane	Ave	0.3550	0.3512		0.00990	0.0100	-1.0	50.0
Chlorobenzene	Ave	1.135	1.174	0.3000	0.0103	0.0100	3.5	50.0
1,1,1,2-Tetrachloroethane	Ave	0.3319	0.3657		0.0110	0.0100	10.2	50.0
Ethylbenzene	Ave	0.6120	0.6547		0.0107	0.0100	7.0	20.0
m-Xylene & p-Xylene	Ave	0.7726	0.8126		0.0210	0.0200	5.2	50.0
o-Xylene	Ave	0.7275	0.7902		0.0109	0.0100	8.6	50.0
Styrene	Ave	1.275	1.388		0.0109	0.0100	8.9	50.0
Bromoform	Lin1		0.1927	0.1000	0.00964	0.0100	-3.6	50.0
Isopropylbenzene	Ave	1.860	1.985		0.0107	0.0100	6.8	50.0
1,1,2,2-Tetrachloroethane	Ave	1.077	1.068	0.3000	0.00992	0.0100	-0.8	50.0
Bromobenzene	Ave	0.8677	0.9088		0.0105	0.0100	4.7	50.0
1,2,3-Trichloropropane	Ave	0.3245	0.3487		0.0107	0.0100	7.5	50.0
trans-1,4-Dichloro-2-butene	Ave	0.2775	0.3111		0.0112	0.0100	12.1	50.0
n-Propylbenzene	Ave	1.020	1.079		0.0106	0.0100	5.9	50.0
2-Chlorotoluene	Ave	0.8835	0.9044		0.0102	0.0100	2.4	50.0
1,3,5-Trimethylbenzene	Ave	3.184	3.304		0.0104	0.0100	3.8	50.0
4-Chlorotoluene	Ave	0.9420	0.9453		0.0100	0.0100	0.3	50.0
tert-Butylbenzene	Ave	2.534	2.669		0.0105	0.0100	5.4	50.0
1,2,4-Trimethylbenzene	Ave	3.224	3.366		0.0104	0.0100	4.4	50.0
sec-Butylbenzene	Ave	3.590	3.703		0.0103	0.0100	3.1	50.0
1,3-Dichlorobenzene	Ave	1.593	1.641		0.0103	0.0100	3.1	50.0
p-Isopropyltoluene	Ave	2.791	2.957		0.0106	0.0100	6.0	50.0
1,4-Dichlorobenzene	Ave	1.663	1.748		0.0105	0.0100	5.1	50.0
n-Butylbenzene	Ave	2.429	2.606		0.0107	0.0100	7.3	50.0
1,2-Dichlorobenzene	Ave	1.471	1.533		0.0104	0.0100	4.2	50.0
1,2-Dibromo-3-Chloropropane	Ave	0.1006	0.1088		0.0108	0.0100	8.1	50.0
1,3,5-Trichlorobenzene	Ave	0.5764	0.5925		0.0103	0.0100	2.8	50.0
1,2,4-Trichlorobenzene	Ave	0.4987	0.5155		0.0103	0.0100	3.4	50.0
Hexachlorobutadiene	Ave	0.1865	0.1944		0.0104	0.0100	4.2	50.0
Naphthalene	Ave	1.584	1.587		0.0100	0.0100	0.1	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCVIS 240-5679/2 Calibration Date: 06/22/2011 12:58

Instrument ID: A3UX11 Calib Start Date: 06/21/2011 14:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/21/2011 16:07

Lab File ID: UXJ8021.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichlorobenzene	Ave	0.4882	0.4715		0.00966	0.0100	-3.4	50.0
Dibromofluoromethane (Surr)	Ave	0.2262	0.2415		0.00886	0.00830	6.7	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3462	0.3591		0.00861	0.00830	3.7	50.0
Toluene-d8 (Surr)	Ave	1.544	1.590		0.00855	0.00830	3.0	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5459	0.5930		0.00902	0.00830	8.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-5679/3 Calibration Date: 06/22/2011 13:21

Instrument ID: A3UX11 Calib Start Date: 06/21/2011 14:13

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/21/2011 16:07

Lab File ID: UXJ8022.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dibromofluoromethane (Surr)	Ave	0.2262	0.2298		0.00843	0.00830	1.6	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3462	0.3459		0.00829	0.00830	-0.1	50.0
Toluene-d8 (Surr)	Ave	1.544	1.557		0.00837	0.00830	0.9	50.0
4-Bromofluorobenzene (Surr)	Ave	0.5459	0.5808		0.00883	0.00830	6.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-5679/3 Calibration Date: 06/22/2011 13:21

Instrument ID: A3UX11 Calib Start Date: 06/21/2011 16:30

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/21/2011 18:24

Lab File ID: UXJ8022.D Conc. Units: ng/uL Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorofluoromethane	Ave	0.2142	0.2294		0.0107	0.0100	7.1	50.0
Ethyl ether	Ave	0.2578	0.2594		0.0101	0.0100	0.6	50.0
3-Chloro-1-propene	Ave	0.1389	0.1432		0.0103	0.0100	3.1	50.0
Diisopropyl ether	Ave	0.2670	0.2674		0.0501	0.0500	0.2	50.0
2-Chloro-1,3-butadiene	Ave	0.4743	0.5111		0.0108	0.0100	7.8	50.0
Ethyl-t-butyl ether (ETBE)	Ave	0.8852	0.8932		0.0101	0.0100	0.9	50.0
Ethyl acetate	Ave	0.3118	0.3125		0.0200	0.0200	0.2	50.0
Propionitrile	Ave	0.0439	0.0460	NT	0.0210	0.0200	4.8	50.0
Methacrylonitrile	Ave	0.2131	0.2170		0.0102	0.0100	1.8	50.0
Isobutyl alcohol	Ave	0.0141	0.0129	NT	0.183	0.200	-8.3	50.0
Tert-amyl-methyl ether (TAME)	Ave	0.7489	0.7688		0.0103	0.0100	2.7	50.0
n-Heptane	Ave	0.0556	0.0557		0.0100	0.0100	0.2	50.0
n-Butanol	Lin1		0.0096	NT	0.172	0.200	-14.1	50.0
Methyl methacrylate	Ave	0.2978	0.2986		0.0100	0.0100	0.2	50.0
2-Nitropropane	Qua		0.0615		0.0220	0.0200	10.0	50.0
Cyclohexanone	Ave	0.0549	0.0533		0.0972	0.100	-2.8	50.0
1,2,3-Trimethylbenzene	Ave	3.088	3.196		0.0103	0.0100	3.5	50.0
2-Methylnaphthalene	Ave	0.8156	0.8166		0.0200	0.0200	0.1	50.0

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: UXJ8024.D Lab Sample ID: MB 240-5679/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX11 Date Analyzed: 06/22/2011 14:08

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-5679/4	UXJ8023.D	06/22/2011 13:44
TB-060811	240-948-1	UXJ8025.D	06/22/2011 14:30
MSA-SW39A-060811	240-948-2	UXJ8026.D	06/22/2011 14:53
MSA-SW39B-060811	240-948-3	UXJ8027.D	06/22/2011 15:16
MSA-SW39C-060811	240-948-4	UXJ8028.D	06/22/2011 15:39
MSA-SW45A-060811	240-948-5	UXJ8029.D	06/22/2011 16:02
MSA-SW45B-060811	240-948-6	UXJ8030.D	06/22/2011 16:25
MSA-SW45C-060811	240-948-7	UXJ8031.D	06/22/2011 16:48
MSA-SW44A-060811	240-948-8	UXJ8032.D	06/22/2011 17:11
MSA-SW44B-060811	240-948-9	UXJ8033.D	06/22/2011 17:34
MSA-SW44C-060811	240-948-10	UXJ8034.D	06/22/2011 17:57
MSA-SW41A-060811	240-948-11	UXJ8035.D	06/22/2011 18:20
MSA-SW41B-060811	240-948-12	UXJ8036.D	06/22/2011 18:43
MSA-SW41C-060811	240-948-13	UXJ8037.D	06/22/2011 19:06
MSA-SW38A-060811	240-948-14	UXJ8038.D	06/22/2011 19:29
MSA-SW38B-060811	240-948-15	UXJ8039.D	06/22/2011 19:52
MSA-SW38C-060811	240-948-16	UXJ8040.D	06/22/2011 20:15
MSA-SW43A-060811	240-948-17	UXJ8041.D	06/22/2011 20:38
MSA-SW43B-060811	240-948-18	UXJ8042.D	06/22/2011 21:01
MSA-SW43C-060811	240-948-19	UXJ8043.D	06/22/2011 21:24
MSA-SW40A-060811	240-948-20	UXJ8044.D	06/22/2011 21:47
MSA-SW43C-060811 MS	240-948-19 MS	UXJ8045.D	06/22/2011 22:10
MSA-SW43C-060811 MSD	240-948-19 MSD	UXJ8046.D	06/22/2011 22:33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-5679/5

Matrix: Water Lab File ID: UXJ8024.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 14:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	5.0	U	5.0	1.1
71-43-2	Benzene	1.0	U	1.0	0.13
108-86-1	Bromobenzene	1.0	U	1.0	0.13
74-97-5	Bromochloromethane	1.0	U	1.0	0.29
75-27-4	Bromodichloromethane	1.0	U	1.0	0.15
75-25-2	Bromoform	1.0	U	1.0	0.64
74-83-9	Bromomethane	1.0	U	1.0	0.41
78-93-3	2-Butanone	5.0	U	5.0	0.57
75-15-0	Carbon disulfide	1.0	U	1.0	0.13
56-23-5	Carbon tetrachloride	1.0	U	1.0	0.13
108-90-7	Chlorobenzene	1.0	U	1.0	0.15
75-00-3	Chloroethane	1.0	U	1.0	0.29
110-75-8	2-Chloroethyl vinyl ether	10	U	10	0.99
67-66-3	Chloroform	1.0	U	1.0	0.16
74-87-3	Chloromethane	1.0	U	1.0	0.30
95-49-8	2-Chlorotoluene	1.0	U	1.0	0.11
106-43-4	4-Chlorotoluene	1.0	U	1.0	0.18
156-59-2	cis-1,2-Dichloroethene	1.0	U	1.0	0.17
10061-01-5	cis-1,3-Dichloropropene	1.0	U	1.0	0.14
124-48-1	Dibromochloromethane	1.0	U	1.0	0.18
96-12-8	1,2-Dibromo-3-Chloropropane	5.0	U	5.0	0.67
106-93-4	1,2-Dibromoethane	1.0	U	1.0	0.24
74-95-3	Dibromomethane	1.0	U	1.0	0.28
95-50-1	1,2-Dichlorobenzene	1.0	U	1.0	0.13
541-73-1	1,3-Dichlorobenzene	1.0	U	1.0	0.14
106-46-7	1,4-Dichlorobenzene	1.0	U	1.0	0.13
75-71-8	Dichlorodifluoromethane	1.0	U	1.0	0.31
75-34-3	1,1-Dichloroethane	1.0	U	1.0	0.15
107-06-2	1,2-Dichloroethane	1.0	U	1.0	0.22
75-35-4	1,1-Dichloroethene	1.0	U	1.0	0.19
78-87-5	1,2-Dichloropropane	1.0	U	1.0	0.18
142-28-9	1,3-Dichloropropane	1.0	U	1.0	0.16
594-20-7	2,2-Dichloropropane	1.0	U	1.0	0.13
563-58-6	1,1-Dichloropropene	1.0	U	1.0	0.13
108-20-3	Diisopropyl ether	5.0	U	5.0	1.5
100-41-4	Ethylbenzene	1.0	U	1.0	0.17

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-5679/5

Matrix: Water Lab File ID: UXJ8024.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 14:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	1.0	U	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-5679/5

Matrix: Water Lab File ID: UXJ8024.D

Analysis Method: 8260B Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/22/2011 14:08

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: DB-624 ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 5679 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1330-20-7	Xylenes, Total	2.0	U	2.0	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	107		66-117
1868-53-7	Dibromofluoromethane (Surr)	105		75-121
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		63-129
2037-26-5	Toluene-d8 (Surr)	104		74-115

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM	#	DCA	#	TOL	#	BFB	#
TB-060811	240-948-1	101		101		101		107	
MSA-SW39A-060811	240-948-2	98		101		103		107	
MSA-SW39B-060811	240-948-3	101		103		103		104	
MSA-SW39C-060811	240-948-4	102		104		103		104	
MSA-SW45A-060811	240-948-5	97		99		101		102	
MSA-SW45B-060811	240-948-6	98		102		105		106	
MSA-SW45C-060811	240-948-7	106		107		106		106	
MSA-SW44A-060811	240-948-8	100		107		106		110	
MSA-SW44B-060811	240-948-9	100		109		103		106	
MSA-SW44C-060811	240-948-10	103		108		103		105	
MSA-SW41A-060811	240-948-11	102		106		102		106	
MSA-SW41B-060811	240-948-12	102		109		103		109	
MSA-SW41C-060811	240-948-13	98		110		104		109	
MSA-SW38A-060811	240-948-14	103		113		101		105	
MSA-SW38B-060811	240-948-15	103		108		103		106	
MSA-SW38C-060811	240-948-16	99		110		103		110	
MSA-SW43A-060811	240-948-17	103		110		104		110	
MSA-SW43B-060811	240-948-18	105		111		106		107	
MSA-SW43C-060811	240-948-19	100		107		104		108	
MSA-SW40A-060811	240-948-20	99		112		103		107	
MSA-SW40B-060811	240-948-21	96		96		92		86	
MSA-SW40C-060811	240-948-22	95		95		89		81	
MSA-SW42A-060811	240-948-23	95		96		88		81	
MSA-SW42B-060811	240-948-24	93		94		89		82	
MSA-SW42C-060811	240-948-25	98		98		90		86	
MSA-SW37A-060811	240-948-26	100		99		91		86	
MSA-SW37B-060811	240-948-27	99		98		90		83	
MSA-SW37C-060811	240-948-28	97		98		90		82	
	MB 240-5551/5	96		96		91		87	
	MB 240-5679/5	105		101		104		107	
	LCS 240-5551/4	93		91		100		100	
	LCS 240-5679/4	101		102		105		111	
MSA-SW43C-060811 MS	240-948-19 MS	98		109		104		112	
	240-1036-C-2 MS	94		92		97		103	

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115
BFB = 4-Bromofluorobenzene (Surr)	66-117

Column to be used to flag recovery values

FORM II 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM	#	DCA	#	TOL	#	BFB	#
MSA-SW43C-060811 MSD	240-948-19 MSD	104		109		102		111	
	240-1036-F-2 MSD	95		95		97		102	

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-115
BFB = 4-Bromofluorobenzene (Surr)	66-117

Column to be used to flag recovery values

FORM II 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ8023.D

Lab ID: LCS 240-5679/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	22.4	112	43-136	
Benzene	10.0	10.0	100	83-112	
Bromobenzene	10.0	9.91	99	76-115	
Bromochloromethane	10.0	9.96	100	77-120	
Bromodichloromethane	10.0	10.2	102	72-121	
Bromoform	10.0	8.84	88	40-131	
Bromomethane	10.0	7.62	76	11-185	
2-Butanone	20.0	20.5	103	60-126	
Carbon disulfide	10.0	9.91	99	62-142	
Carbon tetrachloride	10.0	10.6	106	66-128	
Chlorobenzene	10.0	9.64	96	85-110	
Chloroethane	10.0	9.17	92	25-153	
2-Chloroethyl vinyl ether	10.0	9.59 J	96	52-131	
Chloroform	10.0	10.5	105	79-117	
Chloromethane	10.0	8.62	86	44-126	
2-Chlorotoluene	10.0	9.45	95	76-116	
4-Chlorotoluene	10.0	10.0	100	77-115	
cis-1,2-Dichloroethene	10.0	10.3	103	80-113	
cis-1,3-Dichloropropene	10.0	9.72	97	61-115	
Dibromochloromethane	10.0	10.2	102	64-119	
1,2-Dibromo-3-Chloropropane	10.0	10.9	109	42-136	
1,2-Dibromoethane	10.0	10.0	100	79-113	
Dibromomethane	10.0	10.1	101	81-120	
1,2-Dichlorobenzene	10.0	10.1	101	81-110	
1,3-Dichlorobenzene	10.0	9.82	98	80-110	
1,4-Dichlorobenzene	10.0	9.65	97	82-110	
Dichlorodifluoromethane	10.0	7.73	77	19-129	
1,1-Dichloroethane	10.0	10.3	103	82-115	
1,2-Dichloroethane	10.0	10.5	105	71-127	
1,1-Dichloroethene	10.0	10.9	109	78-131	
1,2-Dichloropropane	10.0	10.1	101	81-115	
1,3-Dichloropropane	10.0	9.83	98	79-116	
2,2-Dichloropropane	10.0	9.93	99	50-129	
1,1-Dichloropropene	10.0	10.2	102	83-114	
Diisopropyl ether	10.0	9.80	98	77-118	
Ethylbenzene	10.0	9.95	100	83-112	
Hexachlorobutadiene	10.0	8.25	83	36-134	
2-Hexanone	20.0	21.7	109	55-133	
Isopropylbenzene	10.0	9.77	98	75-114	
Methylene Chloride	10.0	9.73	97	66-131	
4-Methyl-2-pentanone	20.0	20.7	104	63-128	
Methyl tert-butyl ether	10.0	9.77	98	52-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ8023.D

Lab ID: LCS 240-5679/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	20.0	19.3	97	83-113	
Naphthalene	10.0	10.1	101	32-141	
n-Butylbenzene	10.0	10.3	103	66-125	
n-Propylbenzene	10.0	10.2	102	74-121	
o-Xylene	10.0	9.93	99	83-113	
p-Isopropyltoluene	10.0	10.2	102	74-120	
sec-Butylbenzene	10.0	9.65	97	70-117	
Styrene	10.0	10.1	101	79-114	
tert-Butyl alcohol	200	203	102	70-130	
tert-Butylbenzene	10.0	9.91	99	71-115	
1,1,1,2-Tetrachloroethane	10.0	10.4	104	72-116	
1,1,2,2-Tetrachloroethane	10.0	9.62	96	68-118	
Tetrachloroethene	10.0	9.66	97	79-114	
Toluene	10.0	9.71	97	84-111	
trans-1,2-Dichloroethene	10.0	10.2	102	83-117	
trans-1,3-Dichloropropene	10.0	9.96	100	58-117	
1,2,3-Trichlorobenzene	10.0	9.46	95	54-126	
1,2,4-Trichlorobenzene	10.0	9.08	91	48-135	
1,1,1-Trichloroethane	10.0	10.4	104	74-118	
Trichloroethene	10.0	9.27	93	76-117	
Trichlorofluoromethane	10.0	10.5	105	49-157	
1,2,3-Trichloropropane	10.0	10.3	103	73-129	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	10.4	104	74-151	
1,2,3-Trimethylbenzene	10.0	10.7	107	70-130	
1,2,4-Trimethylbenzene	10.0	9.93	99	76-120	
Vinyl acetate	10.0	9.69	97	46-161	
Vinyl chloride	10.0	8.51	85	53-127	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: BFB682.D BFB Injection Date: 06/21/2011

Instrument ID: A3UX11 BFB Injection Time: 13:42

Analysis Batch No.: 5529

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.8	
75	30.0 - 60.0 % of mass 95	51.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.5	(0.7)1
174	50.0 - 120.00 % of mass 95	66.2	
175	5.0 - 9.0 % of mass 174	4.9	(7.4)1
176	95.0 - 101.0 % of mass 174	64.4	(97.4)1
177	5.0 - 9.0 % of mass 176	4.3	(6.7)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8260 240-5529/2	UXJ8000.D	06/21/2011	14:13
	STD8260 240-5529/3	UXJ8001.D	06/21/2011	14:36
	STD8260 240-5529/4	UXJ8002.D	06/21/2011	14:59
	STD8260 240-5529/5	UXJ8003.D	06/21/2011	15:22
	STD8260 240-5529/6	UXJ8004.D	06/21/2011	15:44
	STD8260 240-5529/7	UXJ8005.D	06/21/2011	16:07
	STD6 240-5529/8	UXJ8006.D	06/21/2011	16:30
	STD5 240-5529/9	UXJ8007.D	06/21/2011	16:53
	STD4 240-5529/10	UXJ8008.D	06/21/2011	17:16
	STD3 240-5529/11	UXJ8009.D	06/21/2011	17:39
	STD2 240-5529/12	UXJ8010.D	06/21/2011	18:02
	STD1 240-5529/13	UXJ8011.D	06/21/2011	18:24
	ICV 240-5529/14	UXJ8012.D	06/21/2011	18:47

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 5529

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2011 14:13 Calibration End Date: 06/21/2011 16:07 Calibration ID: 1566

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-5529/7	UXJ8005.D
Level 2	STD8260 240-5529/6	UXJ8004.D
Level 3	STD8260 240-5529/5	UXJ8003.D
Level 4	STD8260 240-5529/4	UXJ8002.D
Level 5	STD8260 240-5529/3	UXJ8001.D
Level 6	STD8260 240-5529/2	UXJ8000.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6																
Dichlorodifluoromethane	0.1101	0.1189	0.1401	0.1252	0.1317	Ave		0.1263				8.4		15.0			
	0.1317																
Chloromethane	0.1918	0.1898	0.1853	0.1943	0.1914	Ave		0.1883			0.1000	3.3		15.0			
	0.1772																
Vinyl chloride	0.2009	0.1952	0.1806	0.1993	0.1917	Ave		0.1924				4.0		15.0			
	0.1868																
Bromomethane	0.0869	0.0722	0.0702	0.0783	0.0725	Ave		0.0762				8.0		15.0			
	0.0774																
Chloroethane	0.0814	0.0930	0.0812	0.0849	0.0830	Ave		0.0838				5.9		15.0			
	0.0791																
Trichlorofluoromethane	0.1901	0.2225	0.2293	0.2271	0.2252	Ave		0.2186				6.7		15.0			
	0.2173																
Acrolein	0.0428	0.0439	0.0466	0.0482	0.0472	Ave		0.0458				4.5		15.0			
	0.0464								NT								
1,1-Dichloroethene	0.1766	0.1783	0.1844	0.1913	0.1979	Ave		0.1870				4.6		15.0			
	0.1934																
Acetone	0.1369	0.1081	0.0917	0.0899	0.0831	Lin1	0.1219	0.0791							0.9990		0.9900
	0.0790																
1,1,2-Trichloro-1,2,2-trichfluoroethane	0.0825	0.0836	0.0915	0.0857	0.0879	Ave		0.0868				4.1		15.0			
	0.0898																
Iodomethane	0.2190	0.2416	0.2308	0.2499	0.2483	Ave		0.2397				5.1		15.0			
	0.2483																
Carbon disulfide	0.5116	0.5744	0.5887	0.6060	0.6406	Ave		0.5968				8.8		15.0			
	0.6594																
Acetonitrile	0.0339	0.0335	0.0344	0.0330	0.0318	Ave		0.0332				2.8		15.0			
	0.0328								NT								
Methyl acetate	0.2556	0.2612	0.2443	0.2504	0.2421	Ave		0.2487				3.5		15.0			
	0.2386																
Methylene Chloride	0.5824	0.4195	0.2977	0.2735	0.2600	Lin1	0.3445	0.2389							1.0000		0.9900
	0.2465																

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 5529

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2011 14:13 Calibration End Date: 06/21/2011 16:07 Calibration ID: 1566

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
tert-Butyl alcohol	0.0176 0.0192	0.0189	0.0188	0.0193	0.0196	Ave		0.0189				3.6		15.0			
Acrylonitrile	0.1136 0.1154	0.1128	0.1167	0.1256	0.1190	Ave		0.1172				4.0		15.0			
Methyl tert-butyl ether	0.7239 0.8204	0.7803	0.7566	0.7912	0.8080	Ave		0.7801				4.5		15.0			
trans-1,2-Dichloroethene	0.2580 0.2719	0.2619	0.2641	0.2662	0.2655	Ave		0.2646				1.8		15.0			
Hexane	0.0519 0.0656	0.0682	0.0755	0.0618	0.0628	Ave		0.0643				12.0		15.0			
1,1-Dichloroethane	0.5209 0.5299	0.5381	0.5032	0.5222	0.5204	Ave		0.5225			0.1000	2.2		15.0			
Vinyl acetate	0.0405 0.0609	0.0408	0.0534	0.0589	0.0598	Lin1	-0.029	0.0613							0.9990		0.9900
2-Butanone	0.1483 0.1361	0.1382	0.1469	0.1423	0.1418	Ave		0.1423				3.3		15.0			
cis-1,2-Dichloroethene	0.2742 0.2976	0.2901	0.2833	0.2845	0.2914	Ave		0.2869				2.8		15.0			
2,2-Dichloropropane	0.2142 0.2595	0.2386	0.2402	0.2553	0.2582	Ave		0.2444				7.1		15.0			
Bromochloromethane	0.1209 0.1238	0.1194	0.1278	0.1194	0.1280	Ave		0.1232				3.2		15.0			
Tetrahydrofuran	0.1064 0.0903	0.0925	0.0951	0.0948	0.0921	Ave		0.0952				6.1		15.0			
Chloroform	0.4622 0.4939	0.4838	0.4554	0.4679	0.4770	Ave		0.4734				3.0		15.0			
1,1,1-Trichloroethane	0.3083 0.3641	0.3341	0.3473	0.3457	0.3642	Ave		0.3439				6.1		15.0			
Cyclohexane	0.4168 0.4442	0.4508	0.4895	0.4344	0.4423	Ave		0.4463				5.4		15.0			
1,1-Dichloropropene	0.3894 0.4107	0.3915	0.4008	0.4110	0.4094	Ave		0.4021				2.4		15.0			
Carbon tetrachloride	0.2544 0.3107	0.2741	0.2799	0.2859	0.2960	Ave		0.2835				6.8		15.0			
1,2-Dichloroethane	0.3919 0.4169	0.4239	0.3858	0.4068	0.4052	Ave		0.4051				3.6		15.0			
Benzene	1.1750 1.2912	1.2315	1.1543	1.2375	1.2458	Ave		1.2226				4.1		15.0			
Trichloroethene	0.2598 0.2637	0.2642	0.2519	0.2667	0.2624	Ave		0.2614				2.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 5529

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2011 14:13 Calibration End Date: 06/21/2011 16:07 Calibration ID: 1566

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methylcyclohexane	0.4074 0.4276	0.4023	0.4526	0.4016	0.4032	Ave		0.4158				4.9		15.0			
1,2-Dichloropropane	0.3267 0.3196	0.3359	0.3033	0.3189	0.3211	Ave		0.3209				3.3		15.0			
Dibromomethane	0.1673 0.1619	0.1673	0.1570	0.1632	0.1633	Ave		0.1633				2.3		15.0			
1,4-Dioxane	0.0020 0.0022	0.0020	0.0021	0.0024	0.0024	Ave		0.0022	NT			8.1		15.0			
Bromodichloromethane	0.3231 0.3784	0.3491	0.3253	0.3460	0.3618	Ave		0.3473				6.1		15.0			
2-Chloroethyl vinyl ether	0.1948 0.2165	0.1952	0.2115	0.2185	0.2203	Ave		0.2095				5.5		15.0			
cis-1,3-Dichloropropene	0.3620 0.5109	0.4254	0.4258	0.4700	0.4844	Ave		0.4464				12.0		15.0			
4-Methyl-2-pentanone	0.2820 0.3108	0.2691	0.2966	0.3061	0.3067	Ave		0.2952				5.6		15.0			
Toluene	1.8313 2.0509	1.9064	1.8171	1.8948	1.9613	Ave		1.9103				4.5		15.0			
trans-1,3-Dichloropropene	0.4739 0.6797	0.5184	0.5500	0.6069	0.6405	Ave		0.5782				13.0		15.0			
Ethyl methacrylate	0.5042 0.6689	0.5412	0.5882	0.6501	0.6561	Ave		0.6015				11.0		15.0			
1,1,2-Trichloroethane	0.3660 0.3681	0.3687	0.3566	0.3735	0.3735	Ave		0.3677				1.7		15.0			
1,3-Dichloropropane	0.7388 0.7303	0.7614	0.7206	0.7426	0.7165	Ave		0.7350				2.2		15.0			
Tetrachloroethene	0.2798 0.2974	0.2918	0.2616	0.2866	0.2898	Ave		0.2845				4.5		15.0			
2-Hexanone	0.2579 0.3042	0.2603	0.2909	0.3040	0.3087	Ave		0.2877				8.0		15.0			
Dibromochloromethane	0.2667 0.3781	0.2984	0.3045	0.3447	0.3602	Ave		0.3254				13.0		15.0			
1,2-Dibromoethane	0.3280 0.3683	0.3499	0.3580	0.3666	0.3590	Ave		0.3550				4.2		15.0			
Chlorobenzene	1.1924 1.1592	1.1572	1.0713	1.0990	1.1324	Ave		1.1353			0.3000	3.9		15.0			
1,1,1,2-Tetrachloroethane	0.2852 0.3658	0.3355	0.3181	0.3358	0.3509	Ave		0.3319				8.4		15.0			
Ethylbenzene	0.5845 0.6447	0.6082	0.5880	0.6268	0.6197	Ave		0.6120				3.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 5529

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2011 14:13 Calibration End Date: 06/21/2011 16:07 Calibration ID: 1566

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
m-Xylene & p-Xylene	0.7507 0.8387	0.7578	0.7157	0.7741	0.7988	Ave		0.7726				5.5		15.0			
o-Xylene	0.6876 0.7725	0.7121	0.7074	0.7468	0.7387	Ave		0.7275				4.2		15.0			
Styrene	1.1383 1.4124	1.2048	1.2014	1.3283	1.3622	Ave		1.2746				8.5		15.0			
Bromoform	0.1342 0.2194	0.1383	0.1791	0.1788	0.1993	Lin1	-0.121	0.2126			0.1000				0.9950		0.9900
Isopropylbenzene	1.7050 2.0596	1.8682	1.7559	1.8354	1.9331	Ave		1.8596				6.8		15.0			
1,1,2,2-Tetrachloroethane	1.1151 1.1104	1.0798	1.0425	1.0784	1.0383	Ave		1.0774			0.3000	3.0		15.0			
Bromobenzene	0.8340 0.9495	0.8398	0.8149	0.8706	0.8975	Ave		0.8677				5.7		15.0			
1,2,3-Trichloropropane	0.3191 0.3322	0.3202	0.3341	0.3178	0.3235	Ave		0.3245				2.2		15.0			
trans-1,4-Dichloro-2-butene	0.2178 0.3337	0.2592	0.2736	0.2721	0.3085	Ave		0.2775				14.0		15.0			
n-Propylbenzene	0.9758 1.0850	1.0840	0.9647	0.9921	1.0161	Ave		1.0196				5.2		15.0			
2-Chlorotoluene	0.9246 0.9324	0.8752	0.8130	0.8808	0.8749	Ave		0.8835				4.9		15.0			
1,3,5-Trimethylbenzene	3.0387 3.4989	3.1372	2.9734	3.2027	3.2549	Ave		3.1843				5.8		15.0			
4-Chlorotoluene	0.9964 0.9673	0.9623	0.8865	0.9139	0.9255	Ave		0.9420				4.3		15.0			
tert-Butylbenzene	2.4618 2.7815	2.4874	2.3818	2.5051	2.5840	Ave		2.5336				5.4		15.0			
1,2,4-Trimethylbenzene	3.2238 3.5492	3.0827	2.9585	3.2362	3.2916	Ave		3.2236				6.2		15.0			
sec-Butylbenzene	3.4053 4.0473	3.4928	3.3467	3.5933	3.6548	Ave		3.5901				7.0		15.0			
1,3-Dichlorobenzene	1.6286 1.6713	1.5262	1.5280	1.6010	1.6008	Ave		1.5927				3.6		15.0			
p-Isopropyltoluene	2.5178 3.0461	2.8385	2.6287	2.8177	2.8954	Ave		2.7907				6.8		15.0			
1,4-Dichlorobenzene	1.7327 1.7058	1.7186	1.5180	1.6641	1.6378	Ave		1.6629				4.8		15.0			
n-Butylbenzene	2.3575 2.5416	2.4464	2.3187	2.4326	2.4756	Ave		2.4287				3.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 5529

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2011 14:13 Calibration End Date: 06/21/2011 16:07 Calibration ID: 1566

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichlorobenzene	1.5203 1.4979	1.4560	1.3971	1.4847	1.4715	Ave		1.4712				2.9		15.0			
1,2-Dibromo-3-Chloropropane	0.0748 0.1102	0.0898	0.1034	0.1165	0.1091	Ave		0.1006				15.0		15.0			
1,3,5-Trichlorobenzene	0.5592 0.5790	0.6258	0.5650	0.5747	0.5547	Ave		0.5764				4.5		15.0			
1,2,4-Trichlorobenzene	0.4806 0.5629	0.4927	0.4640	0.4925	0.4991	Ave		0.4987				6.8		15.0			
Hexachlorobutadiene	0.1709 0.2110	0.1821	0.1872	0.1834	0.1846	Ave		0.1865				7.1		15.0			
Naphthalene	1.4768 1.7969	1.4585	1.5185	1.6026	1.6516	Ave		1.5841				8.1		15.0			
1,2,3-Trichlorobenzene	0.4957 0.5283	0.4978	0.4443	0.4713	0.4916	Ave		0.4882				5.8		15.0			
Dibromofluoromethane (Surr)	0.2142 0.2385	0.2337	0.2209	0.2271	0.2230	Ave		0.2262				3.9		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3368 0.3568	0.3601	0.3289	0.3496	0.3452	Ave		0.3462				3.4		15.0			
Toluene-d8 (Surr)	1.4451 1.6424	1.5798	1.5280	1.5412	1.5261	Ave		1.5438				4.2		15.0			
4-Bromofluorobenzene (Surr)	0.5401 0.5667	0.5513	0.5319	0.5472	0.5381	Ave		0.5459				2.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 5529

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2011 16:30 Calibration End Date: 06/21/2011 18:24 Calibration ID: 1568

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-5529/13	UXJ8011.D
Level 2	STD2 240-5529/12	UXJ8010.D
Level 3	STD3 240-5529/11	UXJ8009.D
Level 4	STD4 240-5529/10	UXJ8008.D
Level 5	STD5 240-5529/9	UXJ8007.D
Level 6	STD6 240-5529/8	UXJ8006.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorofluoromethane	0.2000 0.2195	0.2140	0.2176	0.2236	0.2106	Ave		0.2142				3.9		15.0			
Ethyl ether	0.2658 0.2533	0.2728	0.2571	0.2520	0.2458	Ave		0.2578				3.8		15.0			
3-Chloro-1-propene	0.1321 0.1497	0.1318	0.1334	0.1465	0.1400	Ave		0.1389				5.6		15.0			
Diisopropyl ether	0.2655 0.2793	0.2733	0.2612	0.2623	0.2600	Ave		0.2670				2.9		15.0			
2-Chloro-1,3-butadiene	0.4400 0.4976	0.4700	0.4837	0.4768	0.4775	Ave		0.4743				4.0		15.0			
Ethyl-t-butyl ether (ETBE)	0.9019 0.9324	0.8610	0.8883	0.8581	0.8693	Ave		0.8852				3.2		15.0			
Propionitrile	0.0432 0.0446	0.0417	0.0459	0.0437	0.0441	Ave		0.0439				3.2		15.0			
Ethyl acetate	0.3171 0.3258	0.3063	0.3201	0.3022	0.2995	Ave		0.3118				3.4		15.0			
Methacrylonitrile	0.1997 0.2172	0.2310	0.2199	0.2011	0.2098	Ave		0.2131				5.6		15.0			
Isobutyl alcohol	0.0132 0.0145	0.0141	0.0135	0.0145	0.0145	Ave		0.0141				4.3		15.0			
Tert-amyl-methyl ether (TAME)	0.6778 0.8197	0.7281	0.7549	0.7477	0.7654	Ave		0.7489				6.2		15.0			
n-Heptane	0.0597 0.0567	0.0566	0.0558	0.0521	0.0531	Ave		0.0556				4.9		15.0			
n-Butanol	0.0076 0.0119	0.0093	0.0095	0.0111	0.0112	Lin1	-0.105	0.0118							0.9980		0.9900
Methyl methacrylate	0.3031 0.3115	0.2766	0.3018	0.2959	0.2981	Ave		0.2978				3.9		15.0			
2-Nitropropane	0.0433 0.0707	0.0483	0.0476	0.0517	0.0626	Qua	-0.048	0.0532	0.0002						1.0000		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 5529

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2011 16:30 Calibration End Date: 06/21/2011 18:24 Calibration ID: 1568

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Butyl acetate	0.3985 0.5486	0.4215	0.4686	0.4674	0.4729	Ave		0.4629				11.0		15.0			
Cyclohexanone	0.0478 0.0564	0.0562	0.0593	0.0610	0.0486	Ave		0.0549				10.0		15.0			
1,2,3-Trimethylbenzene	2.7990 3.3059	3.0283	3.0562	3.1325	3.2082	Ave		3.0884				5.6		15.0			
2-Methylnaphthalene	0.6598 0.8731	0.7143	0.8420	0.9239	0.8804	Ave		0.8156				13.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ8045.D

Lab ID: 240-948-19 MS Client ID: MSA-SW43C-060811 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	20.0	5.0 U	23.8	119	33-145	
Benzene	10.0	1.0 U	9.77	98	72-121	
Bromobenzene	10.0	1.0 U	9.04	90	71-116	
Bromochloromethane	10.0	1.0 U	9.88	99	73-121	
Bromodichloromethane	10.0	1.0 U	9.60	96	67-120	
Bromoform	10.0	1.0 U	8.46	85	32-128	
Bromomethane	10.0	1.0 U	6.66	67	10-186	
2-Butanone	20.0	5.0 U	20.5	103	54-129	
Carbon disulfide	10.0	1.0 U	9.42	94	57-147	
Carbon tetrachloride	10.0	1.0 U	10.4	104	59-129	
Chlorobenzene	10.0	1.0 U	9.17	92	80-110	
Chloroethane	10.0	1.0 U	8.12	81	21-165	
2-Chloroethyl vinyl ether	10.0	10 U	10 U	0	10-150	F
Chloroform	10.0	1.0 U	10.6	106	76-118	
Chloromethane	10.0	1.0 U	8.42	84	33-132	
2-Chlorotoluene	10.0	1.0 U	9.30	93	69-117	
4-Chlorotoluene	10.0	1.0 U	9.11	91	71-116	
cis-1,2-Dichloroethene	10.0	0.51 J	10.2	97	70-120	
cis-1,3-Dichloropropene	10.0	1.0 U	8.66	87	51-110	
Dibromochloromethane	10.0	1.0 U	9.09	91	56-118	
1,2-Dibromo-3-Chloropropane	10.0	5.0 U	8.96	90	32-139	
1,2-Dibromoethane	10.0	1.0 U	9.62	96	74-113	
Dibromomethane	10.0	1.0 U	10.1	101	77-121	
1,2-Dichlorobenzene	10.0	1.0 U	9.47	95	75-111	
1,3-Dichlorobenzene	10.0	1.0 U	9.44	94	73-110	
1,4-Dichlorobenzene	10.0	1.0 U	9.30	93	75-110	
Dichlorodifluoromethane	10.0	1.0 U	6.59	66	17-128	
1,1-Dichloroethane	10.0	1.0 U	9.95	100	79-116	
1,2-Dichloroethane	10.0	1.0 U	10.9	109	68-129	
1,1-Dichloroethene	10.0	1.0 U	10.5	105	74-135	
1,2-Dichloropropane	10.0	1.0 U	9.65	97	78-115	
1,3-Dichloropropane	10.0	1.0 U	9.37	94	74-118	
2,2-Dichloropropane	10.0	1.0 U	7.88	79	38-127	
1,1-Dichloropropene	10.0	1.0 U	10.5	105	80-114	
Diisopropyl ether	10.0	5.0 U	8.75	88	73-118	
Ethylbenzene	10.0	1.0 U	9.44	94	75-116	
Hexachlorobutadiene	10.0	1.0 U	6.82	68	27-132	
2-Hexanone	20.0	5.0 U	21.8	109	47-139	
Isopropylbenzene	10.0	1.0 U	9.31	93	68-116	
Methylene Chloride	10.0	1.0 U	9.10	91	63-128	
4-Methyl-2-pentanone	20.0	5.0 U	20.6	103	56-131	
Methyl tert-butyl ether	10.0	5.0 U	9.31	93	46-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ8045.D

Lab ID: 240-948-19 MS Client ID: MSA-SW43C-060811 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	20.0	2.0 U	18.7	94	75-117	
Naphthalene	10.0	1.0 U	9.33	93	15-158	
n-Butylbenzene	10.0	1.0 U	9.68	97	56-127	
n-Propylbenzene	10.0	1.0 U	9.23	92	64-124	
o-Xylene	10.0	1.0 U	9.53	95	76-116	
p-Isopropyltoluene	10.0	1.0 U	9.37	94	64-122	
sec-Butylbenzene	10.0	1.0 U	9.03	90	60-119	
Styrene	10.0	1.0 U	9.65	97	71-117	
tert-Butyl alcohol	200	20 U	185	92	70-130	
tert-Butylbenzene	10.0	1.0 U	9.32	93	61-119	
1,1,1,2-Tetrachloroethane	10.0	1.0 U	9.58	96	64-118	
1,1,2,2-Tetrachloroethane	10.0	1.0 U	9.37	94	63-122	
Tetrachloroethene	10.0	1.0 U	8.96	90	70-117	
Toluene	10.0	1.0 U	9.65	97	78-114	
trans-1,2-Dichloroethene	10.0	1.0 U	9.54	95	80-119	
trans-1,3-Dichloropropene	10.0	1.0 U	8.99	90	46-116	
1,2,3-Trichlorobenzene	10.0	1.0 U	8.50	85	45-129	
1,2,4-Trichlorobenzene	10.0	1.0 U	8.40	84	38-138	
1,1,1-Trichloroethane	10.0	1.0 U	10.2	102	68-121	
Trichloroethene	10.0	0.82 J	9.96	91	66-120	
Trichlorofluoromethane	10.0	1.0 U	9.48	95	46-157	
1,2,3-Trichloropropane	10.0	1.0 U	10.4	104	67-132	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	1.0 U	8.73	87	70-152	
1,2,3-Trimethylbenzene	10.0	5.0 U	10.2	102	70-130	
1,2,4-Trimethylbenzene	10.0	1.0 U	9.67	97	67-124	
Vinyl acetate	10.0	2.0 U	7.68	77	43-157	
Vinyl chloride	10.0	1.0 U	8.70	87	49-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ8046.D

Lab ID: 240-948-19 MSD Client ID: MSA-SW43C-060811 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	20.0	23.8	119	0	30	33-145	
Benzene	10.0	9.95	100	2	30	72-121	
Bromobenzene	10.0	9.23	92	2	30	71-116	
Bromochloromethane	10.0	9.51	95	4	30	73-121	
Bromodichloromethane	10.0	9.91	99	3	30	67-120	
Bromoform	10.0	7.64	76	10	30	32-128	
Bromomethane	10.0	8.15	82	20	30	10-186	
2-Butanone	20.0	20.4	102	0	30	54-129	
Carbon disulfide	10.0	9.72	97	3	30	57-147	
Carbon tetrachloride	10.0	10.4	104	0	30	59-129	
Chlorobenzene	10.0	9.19	92	0	30	80-110	
Chloroethane	10.0	9.56	96	16	30	21-165	
2-Chloroethyl vinyl ether	10.0	10 U	0	NC	30	10-150	F
Chloroform	10.0	10.6	106	0	30	76-118	
Chloromethane	10.0	8.93	89	6	30	33-132	
2-Chlorotoluene	10.0	9.14	91	2	30	69-117	
4-Chlorotoluene	10.0	8.95	90	2	30	71-116	
cis-1,2-Dichloroethene	10.0	10.5	100	3	30	70-120	
cis-1,3-Dichloropropene	10.0	8.67	87	0	30	51-110	
Dibromochloromethane	10.0	9.11	91	0	30	56-118	
1,2-Dibromo-3-Chloropropane	10.0	9.72	97	8	30	32-139	
1,2-Dibromoethane	10.0	9.54	95	1	30	74-113	
Dibromomethane	10.0	10.0	100	1	30	77-121	
1,2-Dichlorobenzene	10.0	9.25	93	2	30	75-111	
1,3-Dichlorobenzene	10.0	9.13	91	3	30	73-110	
1,4-Dichlorobenzene	10.0	8.80	88	6	30	75-110	
Dichlorodifluoromethane	10.0	6.28	63	5	30	17-128	
1,1-Dichloroethane	10.0	10.0	100	1	30	79-116	
1,2-Dichloroethane	10.0	11.0	110	1	30	68-129	
1,1-Dichloroethene	10.0	10.7	107	2	30	74-135	
1,2-Dichloropropane	10.0	9.97	100	3	30	78-115	
1,3-Dichloropropane	10.0	9.59	96	2	30	74-118	
2,2-Dichloropropane	10.0	7.97	80	1	30	38-127	
1,1-Dichloropropene	10.0	10.3	103	2	30	80-114	
Diisopropyl ether	10.0	9.08	91	4	30	73-118	
Ethylbenzene	10.0	9.50	95	1	30	75-116	
Hexachlorobutadiene	10.0	7.73	77	13	30	27-132	
2-Hexanone	20.0	21.4	107	2	30	47-139	
Isopropylbenzene	10.0	9.30	93	0	30	68-116	
Methylene Chloride	10.0	8.77	88	4	30	63-128	
4-Methyl-2-pentanone	20.0	21.0	105	2	30	56-131	
Methyl tert-butyl ether	10.0	9.43	94	1	30	46-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ8046.D

Lab ID: 240-948-19 MSD Client ID: MSA-SW43C-060811 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m-Xylene & p-Xylene	20.0	18.3	92	2	30	75-117	
Naphthalene	10.0	9.41	94	1	30	15-158	
n-Butylbenzene	10.0	9.40	94	3	30	56-127	
n-Propylbenzene	10.0	9.12	91	1	30	64-124	
o-Xylene	10.0	9.78	98	3	30	76-116	
p-Isopropyltoluene	10.0	9.40	94	0	30	64-122	
sec-Butylbenzene	10.0	9.01	90	0	30	60-119	
Styrene	10.0	9.83	98	2	30	71-117	
tert-Butyl alcohol	200	191	95	3	30	70-130	
tert-Butylbenzene	10.0	9.10	91	2	30	61-119	
1,1,1,2-Tetrachloroethane	10.0	9.55	96	0	30	64-118	
1,1,2,2-Tetrachloroethane	10.0	9.09	91	3	30	63-122	
Tetrachloroethene	10.0	8.99	90	0	30	70-117	
Toluene	10.0	9.50	95	2	30	78-114	
trans-1,2-Dichloroethene	10.0	9.72	97	2	30	80-119	
trans-1,3-Dichloropropene	10.0	9.03	90	0	30	46-116	
1,2,3-Trichlorobenzene	10.0	8.50	85	0	30	45-129	
1,2,4-Trichlorobenzene	10.0	8.45	85	1	30	38-138	
1,1,1-Trichloroethane	10.0	10.4	104	2	30	68-121	
Trichloroethene	10.0	10.7	99	7	30	66-120	
Trichlorofluoromethane	10.0	10.3	103	8	30	46-157	
1,2,3-Trichloropropane	10.0	9.56	96	8	30	67-132	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	9.44	94	8	30	70-152	
1,2,3-Trimethylbenzene	10.0	10.1	101	1	30	70-130	
1,2,4-Trimethylbenzene	10.0	9.55	96	1	30	67-124	
Vinyl acetate	10.0	7.73	77	1	30	43-157	
Vinyl chloride	10.0	9.43	94	8	30	49-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX2515.D

Lab ID: 240-1036-C-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Acetone	20.0	5.0 U	20.2	101	33-145	
Benzene	10.0	1.0 U	10.1	101	72-121	
Bromobenzene	10.0	1.0 U	9.66	97	71-116	
Bromochloromethane	10.0	1.0 U	9.85	99	73-121	
Bromodichloromethane	10.0	1.0 U	10.8	108	67-120	
Bromoform	10.0	1.0 U	9.98	100	32-128	
Bromomethane	10.0	1.0 U	11.3	113	10-186	
2-Butanone	20.0	5.0 U	20.5	103	54-129	
Carbon disulfide	10.0	1.0 U	10.1	101	57-147	
Carbon tetrachloride	10.0	1.0 U	12.8	128	59-129	
Chlorobenzene	10.0	1.0 U	9.31	93	80-110	
Chloroethane	10.0	1.0 U	10.0	100	21-165	
2-Chloroethyl vinyl ether	10.0		10 U			
Chloroform	10.0	0.91 J	10.7	98	76-118	
Chloromethane	10.0	1.0 U	9.00	90	33-132	
2-Chlorotoluene	10.0	1.0 U	9.23	92	69-117	
4-Chlorotoluene	10.0	1.0 U	9.36	94	71-116	
cis-1,2-Dichloroethene	10.0	1.0 U	9.62	96	70-120	
cis-1,3-Dichloropropene	10.0	1.0 U	9.36	94	51-110	
Dibromochloromethane	10.0	1.0 U	10.4	104	56-118	
1,2-Dibromo-3-Chloropropane	10.0	5.0 U	8.75	88	32-139	
1,2-Dibromoethane	10.0	1.0 U	10.2	102	74-113	
Dibromomethane	10.0	1.0 U	10.8	108	77-121	
1,2-Dichlorobenzene	10.0	1.0 U	8.52	85	75-111	
1,3-Dichlorobenzene	10.0	1.0 U	8.68	87	73-110	
1,4-Dichlorobenzene	10.0	1.0 U	8.52	85	75-110	
Dichlorodifluoromethane	10.0	1.0 U	8.14	81	17-128	
1,1-Dichloroethane	10.0	1.0 U	10.2	102	79-116	
1,2-Dichloroethane	10.0	1.0 U	10.5	105	68-129	
1,1-Dichloroethene	10.0	1.0 U	10.6	106	74-135	
1,2-Dichloropropane	10.0	1.0 U	10.5	105	78-115	
1,3-Dichloropropane	10.0	1.0 U	10.3	103	74-118	
2,2-Dichloropropane	10.0	1.0 U	7.64	76	38-127	
1,1-Dichloropropene	10.0	1.0 U	9.99	100	80-114	
Diisopropyl ether	10.0		10.4			
Ethylbenzene	10.0	1.0 U	9.31	93	75-116	
Hexachlorobutadiene	10.0	1.0 U	4.89	49	27-132	
2-Hexanone	20.0	5.0 U	21.9	110	47-139	
Isopropylbenzene	10.0	1.0 U	8.34	83	68-116	
Methylene Chloride	10.0	1.0 U	8.69	87	63-128	
4-Methyl-2-pentanone	20.0	5.0 U	23.4	117	56-131	
Methyl tert-butyl ether	10.0	5.0 U	9.60	96	46-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX2515.D

Lab ID: 240-1036-C-2 MS Client ID:

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
m-Xylene & p-Xylene	20.0	2.0 U	18.7	94	75-117	
Naphthalene	10.0	1.0 U	5.55	56	15-158	
n-Butylbenzene	10.0	1.0 U	7.39	74	56-127	
n-Propylbenzene	10.0	1.0 U	9.18	92	64-124	
o-Xylene	10.0	1.0 U	9.18	92	76-116	
p-Isopropyltoluene	10.0	1.0 U	7.69	77	64-122	
sec-Butylbenzene	10.0	1.0 U	7.88	79	60-119	
Styrene	10.0	1.0 U	9.37	94	71-117	
tert-Butyl alcohol	200		178			
tert-Butylbenzene	10.0	1.0 U	8.41	84	61-119	
1,1,1,2-Tetrachloroethane	10.0	1.0 U	9.42	94	64-118	
1,1,2,2-Tetrachloroethane	10.0	1.0 U	10.2	102	63-122	
Tetrachloroethene	10.0	1.0 U	8.81	88	70-117	
Toluene	10.0	1.0 U	9.83	98	78-114	
trans-1,2-Dichloroethene	10.0	1.0 U	9.49	95	80-119	
trans-1,3-Dichloropropene	10.0	1.0 U	9.78	98	46-116	
1,2,3-Trichlorobenzene	10.0	1.0 U	5.80	58	45-129	
1,2,4-Trichlorobenzene	10.0	1.0 U	5.67	57	38-138	
1,1,1-Trichloroethane	10.0	0.41 J	10.0	96	68-121	
Trichloroethene	10.0	1.8	11.5	97	66-120	
Trichlorofluoromethane	10.0	1.0 U	18.9	189	46-157	F
1,2,3-Trichloropropane	10.0	1.0 U	10.5	105	67-132	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0		11.4			
1,2,3-Trimethylbenzene	10.0		7.96			
1,2,4-Trimethylbenzene	10.0	1.0 U	8.91	89	67-124	
Vinyl acetate	10.0	2.0 U	11.9	119	43-157	
Vinyl chloride	10.0	1.0 U	9.45	95	49-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX2516.D

Lab ID: 240-1036-F-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	20.0	20.8	104	3	30	33-145	
Benzene	10.0	10.2	102	1	30	72-121	
Bromobenzene	10.0	9.84	98	2	30	71-116	
Bromochloromethane	10.0	10.0	100	2	30	73-121	
Bromodichloromethane	10.0	10.9	109	1	30	67-120	
Bromoform	10.0	10.2	102	2	30	32-128	
Bromomethane	10.0	11.8	118	4	30	10-186	
2-Butanone	20.0	21.2	106	3	30	54-129	
Carbon disulfide	10.0	9.90	99	2	30	57-147	
Carbon tetrachloride	10.0	13.0	130	2	30	59-129	F
Chlorobenzene	10.0	9.20	92	1	30	80-110	
Chloroethane	10.0	9.88	99	1	30	21-165	
2-Chloroethyl vinyl ether	10.0	10 U					
Chloroform	10.0	10.8	99	1	30	76-118	
Chloromethane	10.0	8.77	88	3	30	33-132	
2-Chlorotoluene	10.0	9.27	93	0	30	69-117	
4-Chlorotoluene	10.0	9.43	94	1	30	71-116	
cis-1,2-Dichloroethene	10.0	9.62	96	0	30	70-120	
cis-1,3-Dichloropropene	10.0	9.82	98	5	30	51-110	
Dibromochloromethane	10.0	10.3	103	1	30	56-118	
1,2-Dibromo-3-Chloropropane	10.0	8.73	87	0	30	32-139	
1,2-Dibromoethane	10.0	10.2	102	0	30	74-113	
Dibromomethane	10.0	11.0	110	2	30	77-121	
1,2-Dichlorobenzene	10.0	8.60	86	1	30	75-111	
1,3-Dichlorobenzene	10.0	8.75	88	1	30	73-110	
1,4-Dichlorobenzene	10.0	8.69	87	2	30	75-110	
Dichlorodifluoromethane	10.0	7.98	80	2	30	17-128	
1,1-Dichloroethane	10.0	10.2	102	0	30	79-116	
1,2-Dichloroethane	10.0	10.6	106	1	30	68-129	
1,1-Dichloroethene	10.0	10.7	107	1	30	74-135	
1,2-Dichloropropane	10.0	10.5	105	0	30	78-115	
1,3-Dichloropropane	10.0	10.2	102	1	30	74-118	
2,2-Dichloropropane	10.0	7.84	78	3	30	38-127	
1,1-Dichloropropene	10.0	9.96	100	0	30	80-114	
Diisopropyl ether	10.0	10.6					
Ethylbenzene	10.0	9.15	92	2	30	75-116	
Hexachlorobutadiene	10.0	5.19	52	6	30	27-132	
2-Hexanone	20.0	22.9	115	4	30	47-139	
Isopropylbenzene	10.0	8.44	84	1	30	68-116	
Methylene Chloride	10.0	8.57	86	1	30	63-128	
4-Methyl-2-pentanone	20.0	24.0	120	3	30	56-131	
Methyl tert-butyl ether	10.0	9.70	97	1	30	46-144	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXX2516.D

Lab ID: 240-1036-F-2 MSD Client ID:

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
m-Xylene & p-Xylene	20.0	18.4	92	2	30	75-117	
Naphthalene	10.0	6.41	64	14	30	15-158	
n-Butylbenzene	10.0	7.71	77	4	30	56-127	
n-Propylbenzene	10.0	9.43	94	3	30	64-124	
o-Xylene	10.0	9.19	92	0	30	76-116	
p-Isopropyltoluene	10.0	7.92	79	3	30	64-122	
sec-Butylbenzene	10.0	8.16	82	3	30	60-119	
Styrene	10.0	9.25	93	1	30	71-117	
tert-Butyl alcohol	200	211					
tert-Butylbenzene	10.0	7.74	77	8	30	61-119	
1,1,1,2-Tetrachloroethane	10.0	9.38	94	0	30	64-118	
1,1,2,2-Tetrachloroethane	10.0	10.1	101	1	30	63-122	
Tetrachloroethene	10.0	8.85	89	0	30	70-117	
Toluene	10.0	9.80	98	0	30	78-114	
trans-1,2-Dichloroethene	10.0	9.73	97	2	30	80-119	
trans-1,3-Dichloropropene	10.0	9.84	98	1	30	46-116	
1,2,3-Trichlorobenzene	10.0	6.22	62	7	30	45-129	
1,2,4-Trichlorobenzene	10.0	6.19	62	9	30	38-138	
1,1,1-Trichloroethane	10.0	10.4	100	4	30	68-121	
Trichloroethene	10.0	11.8	100	3	30	66-120	
Trichlorofluoromethane	10.0	18.9	189	0	30	46-157	F
1,2,3-Trichloropropane	10.0	10.5	105	0	30	67-132	
1,1,2-Trichloro-1,2,2-trichfluoroethane	10.0	11.3					
1,2,3-Trimethylbenzene	10.0	8.16					
1,2,4-Trimethylbenzene	10.0	9.13	91	2	30	67-124	
Vinyl acetate	10.0	12.4	124	4	30	43-157	
Vinyl chloride	10.0	9.28	93	2	30	49-130	

Column to be used to flag recovery and RPD values

FORM III 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: STD8260 240-4668/4 Date Analyzed: 06/14/2011 12:30

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXX2318.D Heated Purge: (Y/N) N

Calibration ID: 1489

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1539533	5.11	1107062	7.79	753199	10.04
UPPER LIMIT		3079066	5.61	2214124	8.29	1506398	10.54
LOWER LIMIT		769767	4.61	553531	7.29	376600	9.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-4668/14		1633332	5.11	1145624	7.79	727463	10.04

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: CCVIS 240-5551/2 Date Analyzed: 06/21/2011 22:41

Instrument ID: A3UX10 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXX2501.D Heated Purge: (Y/N) N

Calibration ID: 1491

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1331842	5.11	1072083	7.80	687677	10.04
UPPER LIMIT		2663684	5.61	2144166	8.30	1375354	10.54
LOWER LIMIT		665921	4.61	536042	7.30	343839	9.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-5551/3		1379721	5.12	1045250	7.79	572733	10.04
LCS 240-5551/4		1322177	5.12	1012904	7.79	616393	10.04
MB 240-5551/5		1271769	5.11	1020700	7.79	568973	10.04
240-948-21	MSA-SW40B-060811	1247058	5.11	989534	7.79	545002	10.04
240-948-22	MSA-SW40C-060811	1226940	5.11	990377	7.79	516690	10.04
240-948-23	MSA-SW42A-060811	1277367	5.11	1026843	7.79	577037	10.04
240-948-24	MSA-SW42B-060811	1277821	5.11	1016660	7.79	562059	10.04
240-948-25	MSA-SW42C-060811	1186756	5.12	973651	7.79	554491	10.04
240-948-26	MSA-SW37A-060811	1184396	5.11	966010	7.80	546914	10.04
240-948-27	MSA-SW37B-060811	1185513	5.11	972611	7.79	538180	10.04
240-948-28	MSA-SW37C-060811	1203645	5.11	961155	7.79	533417	10.04
240-1036-C-2 MS		1277335	5.11	1003021	7.79	647911	10.04
240-1036-F-2 MSD		1324580	5.12	1058418	7.79	670724	10.04

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: STD8260 240-5529/4 Date Analyzed: 06/21/2011 14:59

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ8002.D Heated Purge: (Y/N) N

Calibration ID: 1566

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2327928	5.20	1589067	7.88	728110	10.11
UPPER LIMIT		4655856	5.70	3178134	8.38	1456220	10.61
LOWER LIMIT		1163964	4.70	794534	7.38	364055	9.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-5529/14		2043641	5.20	1372835	7.88	648303	10.11

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: CCVIS 240-5679/2 Date Analyzed: 06/22/2011 12:58

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ8021.D Heated Purge: (Y/N) N

Calibration ID: 1568

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2168896	5.20	1504217	7.86	701545	10.11
UPPER LIMIT		4337792	5.70	3008434	8.36	1403090	10.61
LOWER LIMIT		1084448	4.70	752109	7.36	350773	9.61
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-5679/3		2078992	5.20	1413631	7.88	618475	10.11
LCS 240-5679/4		2034980	5.20	1391973	7.88	636991	10.11
MB 240-5679/5		2001233	5.20	1354758	7.88	592142	10.11
240-948-1	TB-060811	1997462	5.20	1325123	7.88	565965	10.11
240-948-2	MSA-SW39A-060811	1943123	5.20	1314703	7.88	553782	10.11
240-948-3	MSA-SW39B-060811	1908612	5.20	1274104	7.88	549686	10.11
240-948-4	MSA-SW39C-060811	1875310	5.20	1291697	7.88	539899	10.11
240-948-5	MSA-SW45A-060811	1902145	5.20	1290714	7.88	557914	10.11
240-948-6	MSA-SW45B-060811	1893344	5.20	1242768	7.88	547718	10.11
240-948-7	MSA-SW45C-060811	1788239	5.20	1209422	7.88	535077	10.11
240-948-8	MSA-SW44A-060811	1809480	5.20	1212588	7.88	521986	10.11
240-948-9	MSA-SW44B-060811	1803296	5.20	1234146	7.88	521386	10.11
240-948-10	MSA-SW44C-060811	1764767	5.20	1216128	7.88	523029	10.11
240-948-11	MSA-SW41A-060811	1781130	5.20	1206099	7.88	497692	10.11
240-948-12	MSA-SW41B-060811	1777684	5.20	1204118	7.88	510362	10.11
240-948-13	MSA-SW41C-060811	1758006	5.20	1179957	7.88	520638	10.11
240-948-14	MSA-SW38A-060811	1714519	5.20	1207699	7.88	509379	10.11
240-948-15	MSA-SW38B-060811	1770364	5.20	1204790	7.88	519385	10.11
240-948-16	MSA-SW38C-060811	1759769	5.20	1174327	7.88	514568	10.11
240-948-17	MSA-SW43A-060811	1731000	5.20	1167063	7.88	495794	10.11
240-948-18	MSA-SW43B-060811	1700586	5.20	1171249	7.88	504721	10.11
240-948-19	MSA-SW43C-060811	1722550	5.20	1147518	7.88	506301	10.11
240-948-20	MSA-SW40A-060811	1708025	5.20	1149130	7.88	493245	10.11
240-948-19 MS	MSA-SW43C-060811 MS	1810160	5.20	1245971	7.88	583911	10.11
240-948-19 MSD	MSA-SW43C-060811 MSD	1818823	5.20	1271114	7.88	596962	10.11

FB = Fluorobenzene
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260B

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: 0627101B.D DFTPP Injection Date: 06/27/2011

Instrument ID: A4AG2 DFTPP Injection Time: 11:20

Analysis Batch No.: 6150

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	53.2	
68	Less than 2.0% of mass 69	0.8	(1.7)1
69	Mass 69 relative abundance	47.0	
70	Less than 2.0% of mass 69	0.3	(0.6)1
127	25.0 - 75.0% of mass 198	61.0	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.3	
275	10.0- 30.0% of mass 198	24.5	
365	Greater than 0.75% of mass 198	3.6	
441	Present, but less than mass 443	8.9	
442	40.0 - 110.0% of mass 198	80.3	
443	15.0 - 24.0% of mass 442	14.4	(17.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD9 240-6150/4	0627102.D	06/27/2011	10:39
	STD8 240-6150/5	0627103.D	06/27/2011	12:01
	STD7 240-6150/6	0627104.D	06/27/2011	12:18
	STD6 240-6150/7	0627105.D	06/27/2011	12:45
	STD5 240-6150/8	0627106.D	06/27/2011	13:02
	STD4 240-6150/9	0627107.D	06/27/2011	13:18
	STD3 240-6150/10	0627108.D	06/27/2011	13:35
	STD2 240-6150/11	0627109.D	06/27/2011	13:52
	STD1 240-6150/12	0627110.D	06/27/2011	14:08
	ICV 240-6150/13	0627111.D	06/27/2011	14:25

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6150

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 10:39 Calibration End Date: 06/27/2011 14:08 Calibration ID: 1854

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-6150/12	0627110.D
Level 2	STD2 240-6150/11	0627109.D
Level 3	STD3 240-6150/10	0627108.D
Level 4	STD4 240-6150/9	0627107.D
Level 5	STD5 240-6150/8	0627106.D
Level 6	STD6 240-6150/7	0627105.D
Level 7	STD7 240-6150/6	0627104.D
Level 8	STD8 240-6150/5	0627103.D
Level 9	STD9 240-6150/4	0627102.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
1,4-Dioxane		0.6769	0.6091	0.6355	0.5228	Ave		0.5755				10.0		15.0			
	0.5347	0.5187	0.5378	0.5685													
N-Nitrosodimethylamine		0.9785	0.9643	0.9409	0.8810	Ave		0.8999				6.7		15.0			
	0.8406	0.8466	0.8228	0.9243													
Pyridine		1.2475	1.3694	1.4812	1.4520	Ave		1.4184				7.1		15.0			
	1.4152	1.3903	1.3930	1.5991													
Ethyl methacrylate		1.2968	1.2591	1.2212	1.1089	Ave		1.1875				6.2		15.0			
	1.1077	1.1241	1.1502	1.2322													
3-Chloropropionitrile		0.7293	0.7310	0.7243	0.6626	Ave		0.6992				6.4		15.0			
	0.6591	0.6726	0.6449	0.7695													
Malononitrile		1.5942	1.6566	1.5817	1.4981	Ave		1.5310				6.1		15.0			
	1.5449	1.3994	1.3963	1.5773													
Benzaldehyde		1.3770	1.3699	1.3222	1.0192	Qua	0.3002	1.1318	-0.030						0.9920		0.9900
	0.9151	0.6577	0.5591														
Phenol		1.8930	1.9498	1.9491	1.8261	Ave		1.9244				5.9		15.0			
	1.7945	1.8765	1.9390	2.1668													
Aniline		2.3810	2.3413	2.5182	2.4418	Ave		2.4984				5.4		15.0			
	2.4099	2.7392	2.5256	2.6300													
Bis(2-chloroethyl)ether		1.6791	1.6315	1.7349	1.4981	Ave		1.6318				11.0		15.0			
	1.6470	1.3269	1.6091	1.9277													
2-Chlorophenol		1.4614	1.4708	1.4506	1.3655	Ave		1.4528				4.3		15.0			
	1.3827	1.4345	1.4914	1.5653													
1,3-Dichlorobenzene		1.5096	1.4729	1.4717	1.3962	Ave		1.4596				3.4		15.0			
	1.3839	1.4480	1.4669	1.5277													
1,4-Dichlorobenzene		1.5372	1.5261	1.5530	1.4267	Ave		1.5180				3.7		15.0			
	1.4495	1.5184	1.5289	1.6045													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6150

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 10:39 Calibration End Date: 06/27/2011 14:08 Calibration ID: 1854

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzyl alcohol	0.9304	0.8594 0.9468	0.8142 0.9384	0.9071 1.0854	0.9084	Ave		0.9238				8.5		15.0			
1,2-Dichlorobenzene	1.3260	1.3746 1.4530	1.4212 1.4375	1.4490 1.4815	1.3363	Ave		1.4099				4.1		15.0			
2-Methylphenol	1.3867	1.2947 1.4287	1.4743 1.4854	1.4540 1.6298	1.4365	Ave		1.4488				6.5		15.0			
2,2'-oxybis[1-chloropropane]	1.3730	1.4680 1.3649	1.4408 1.3773	1.4213 1.7062	1.3426	Ave		1.4368				8.1		15.0			
Benzoic acid	0.2532	0.1565 0.3093	+++++ 0.2937	0.1900 0.3109	0.2226	Qua	-0.314	0.2673	0.0010						0.9960		0.9900
3 & 4 Methylphenol	1.4369	1.1536 1.4826	1.2780 1.5235	1.4753 1.7069	1.4337	Ave		1.4363				11.0		15.0			
N-Nitrosodi-n-propylamine	1.0686	1.1639 1.1525	1.0768 1.1656	1.1417 1.0234	1.0882	Ave		1.1101			0.0500	4.8		15.0			
Acetophenone	2.0379	2.2043 2.1359	2.1497 2.2413	2.2613 1.9386	2.1172	Ave		2.1358				5.0		15.0			
Hexachloroethane	0.5815	0.6136 0.5878	0.5838 0.6060	0.6166 0.6608	0.5693	Ave		0.6024				4.8		15.0			
Nitrobenzene	0.4001	0.4457 0.4175	0.4555 0.4058	0.4222 0.4630	0.4159	Ave		0.4282				5.5		15.0			
Isophorone	0.7926	0.7604 0.8008	0.8284 0.8039	0.8503 0.8797	0.7801	Ave		0.8120				4.8		15.0			
2,4-Dimethylphenol	0.4303	0.3390 0.4430	0.4002 0.4145	0.4220 0.3834	0.4218	Ave		0.4068				8.1		15.0			
2,4-Toluene diamine	0.1996	0.1546 0.2161	0.2003 0.1974	0.2071 0.1761	0.1939	Ave		0.1931				10.0		15.0			
2-Nitrophenol	0.2061	0.1299 0.2176	0.1679 0.2086	0.1970 0.1843	0.2013	Ave		0.1891				15.0		15.0			
1,3,5-Trichlorobenzene	0.2863	0.2770 0.3305	0.2984 0.3238	0.3163 0.3326	0.2898	Ave		0.3068				7.0		15.0			
Bis(2-chloroethoxy)methane	0.4421	0.4484 0.4593	0.4721 0.4684	0.4747 0.5090	0.4433	Ave		0.4647				4.7		15.0			
2,4-Dinitrophenol	0.2269	+++++ 0.2521	+++++ 0.2567	0.1069 0.2080	0.1998	Ave		0.2084			0.0500	26.0	*	15.0			
4-Nitrophenol	0.2012	+++++ 0.2196	+++++ 0.2373	0.1177 0.2646	0.1833	Qua	-0.048	0.1606	0.0042		0.0500				0.9990		0.9900
2,4-Dichlorophenol	0.2802	0.1783 0.2970	0.2364 0.2902	0.2652 0.3211	0.2792	Qua	0.0105	0.2499	0.0026						0.9980		0.9900
1,2,4-Trichlorobenzene	0.2837	0.3076 0.3011	0.2971 0.3014	0.2924 0.3149	0.2833	Ave		0.2977				3.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6150

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 10:39 Calibration End Date: 06/27/2011 14:08 Calibration ID: 1854

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Naphthalene	1.4013	1.1308	1.1166	1.1582	1.0828	Ave		1.1588				8.3		15.0			
	1.0998	1.1798	1.1516	1.1081													
4-Chloroaniline		0.3166	0.4384	0.4722	0.4783	Ave		0.4668				14.0		15.0			
	0.5026	0.5061	0.4797	0.5405													
2,4,5-Trichlorophenol		+++++	0.2882	0.3752	0.3505	Ave		0.3579				11.0		15.0			
	0.3564	0.3520	0.3688	0.4139													
Hexachlorobutadiene		0.1256	0.1357	0.1479	0.1275	Ave		0.1364				6.7		15.0			
	0.1267	0.1415	0.1378	0.1482													
1,2,3-Trichlorobenzene		0.2829	0.2730	0.2857	0.2676	Ave		0.2779				4.5		15.0			
	0.2636	0.2786	0.2695	0.3021													
Caprolactam		0.0482	0.1121	0.1334	0.1348	Qua	-0.045	0.1489	0						0.9990		0.9900
	0.1347	0.1438	0.1362	0.1357													
4-Chloro-3-methylphenol		0.3026	0.3189	0.3458	0.3387	Ave		0.3433				7.8		15.0			
	0.3367	0.3577	0.3529	0.3928													
2-Methylnaphthalene	0.5727	0.5639	0.6060	0.6274	0.5975	Ave		0.5986				3.8		15.0			
	0.5799	0.6085	0.6029	0.6289													
Pentachlorophenol		+++++	+++++	0.0762	0.1191	Qua	-0.313	0.1424	0.0005						0.9980		0.9900
	0.1267	0.1503	0.1575	0.1599													
1-Methylnaphthalene	0.8694	0.6665	0.7066	0.7006	0.6562	Ave		0.7058				9.2		15.0			
	0.6577	0.7045	0.7011	0.6897													
1,2,3,5-Tetrachlorobenzene		0.4760	0.4754	0.4610	0.4445	Ave		0.4729				4.6		15.0			
	0.4700	0.5030	0.5024	0.4508													
Hexachlorocyclopentadiene		0.1643	0.2008	0.2400	0.2737	Qua	-0.216	0.3505	-0.001		0.0500				0.9920		0.9900
	0.2769	0.3249	0.3348	0.2960													
2,4,6-Trichlorophenol		0.2413	0.3246	0.3213	0.3243	Ave		0.3294				14.0		15.0			
	0.3135	0.3512	0.3613	0.3975													
1,1'-Biphenyl	1.6200	1.4882	1.4864	1.5244	1.5308	Ave		1.4832				8.5		15.0			
	1.5620	1.5006	1.4649	1.1713													
1,2,3,4 -Tetrachlorobenzene		0.4392	0.4697	0.4491	0.4414	Ave		0.4553				4.6		15.0			
	0.4638	0.4740	0.4833	0.4221													
2-Chloronaphthalene	1.1282	1.1102	1.1584	1.2413	1.1129	Ave		1.1702				6.1		15.0			
	1.0827	1.1662	1.2431	1.2888													
4-Nitroaniline		+++++	0.3760	0.3965	0.3848	Ave		0.3940				3.9		15.0			
	0.3832	0.4125	0.4161	0.3890													
2-Nitroaniline		0.4097	0.4140	0.4466	0.4066	Ave		0.4216				4.2		15.0			
	0.4142	0.4137	0.4155	0.4527													
4,6-Dinitro-2-methylphenol		+++++	0.0641	0.1012	0.1275	Qua	-0.116	0.1561	0.0001						0.9990		0.9900
	0.1399	0.1563	0.1516	0.1545													
Dimethyl phthalate		1.3331	1.3698	1.4225	1.2911	Ave		1.3701				4.9		15.0			
	1.2863	1.3583	1.4208	1.4790													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6150

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 10:39 Calibration End Date: 06/27/2011 14:08 Calibration ID: 1854

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2,6-Dinitrotoluene	0.2775	0.2318 0.2856	0.3010 0.2961	0.2903 0.3124	0.2734	Ave		0.2835				8.6		15.0			
1,2-Dinitrobenzene	0.1481	0.1137 0.1532	0.1579 0.1589	0.1549 0.1582	0.1483	Ave		0.1492				10.0		15.0			
Acenaphthylene	2.1247 1.9201	1.8758 2.0629	1.9632 2.1667	2.1150 2.2511	1.9219	Ave		2.0446				6.4		15.0			
3-Nitroaniline	0.3649	0.3269 0.3809	0.3482 0.3770	0.3757 0.4038	0.3651	Ave		0.3678				6.2		15.0			
Acenaphthene	1.6206 1.2189	1.2717 1.2284	1.2012 1.2442	1.2511 1.0520	1.2014	Ave		1.2544				12.0		15.0			
2,4-Dinitrotoluene	0.3792	0.2894 0.3903	0.3584 0.4040	0.3917 0.4211	0.3842	Ave		0.3773				11.0		15.0			
Dibenzofuran	1.6380 1.5154	1.6283 1.6953	1.6377 1.7683	1.6728 1.8249	1.5757	Ave		1.6618				5.6		15.0			
2,3,5,6-Tetrachlorophenol	0.2413	0.1855 0.2772	0.1932 0.2922	0.2558 0.3238	0.2371	Qua	0.0377	0.1926	0.0051						0.9990		0.9900
Diethyl phthalate	1.2946	1.4945 1.4195	1.3891 1.4527	1.4651 1.4900	1.3367	Ave		1.4178				5.1		15.0			
4-Chlorophenyl phenyl ether	0.5571	0.5410 0.6038	0.5531 0.6298	0.5869 0.6250	0.5399	Ave		0.5796				6.4		15.0			
Fluorene	1.3853 1.3461	1.3011 1.4446	1.3005 1.4749	1.4238 1.3961	1.3235	Ave		1.3773				4.6		15.0			
N-Nitrosodiphenylamine	0.6582	0.6087 0.6919	0.6588 0.7129	0.6778 0.7243	0.6417	Ave		0.6718				5.7		15.0			
Azobenzene	1.1113	1.1159 1.1695	1.1696 1.1616	1.1347 1.0777	1.0953	Ave		1.1294				3.1		15.0			
4-Bromophenyl phenyl ether	0.1795	0.1572 0.1905	0.1850 0.2036	0.1884 0.2405	0.1770	Ave		0.1902				13.0		15.0			
Hexachlorobenzene	0.2220 0.1897	0.1960 0.1965	0.1811 0.2082	0.1870 0.2229	0.1788	Ave		0.1980				8.3		15.0			
Atrazine	0.2078	0.1765 0.2153	0.2190 0.2174	0.2095 0.2008	0.2045	Ave		0.2063				6.6		15.0			
Phenanthrene	1.4860 1.1862	1.1783 1.2796	1.1722 1.3304	1.1786 1.3482	1.1526	Ave		1.2569				9.0		15.0			
Anthracene	1.3157 1.2393	1.1295 1.3425	1.2265 1.3816	1.2135 1.3851	1.1910	Ave		1.2694				7.1		15.0			
Carbazole	1.1880	1.1320 1.2647	1.2401 1.3309	1.1985 1.3710	1.1570	Ave		1.2353				6.8		15.0			
Di-n-butyl phthalate	1.5013	1.3564 1.6005	1.4379 1.6609	1.4588 1.4239	1.4445	Ave		1.4855				6.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6150

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 10:39 Calibration End Date: 06/27/2011 14:08 Calibration ID: 1854

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
3,3'-Dimethoxybenzidine	0.2747	+++++ 0.2976	0.1812 0.2866	0.2437 0.2393	0.2651	Ave		0.2555				15.0		15.0			
Fluoranthene	1.3507 1.1950	1.0530 1.2580	1.1577 1.3475	1.1665 1.3591	1.1427	Ave		1.2256				8.9		15.0			
Benzidine	0.7148	0.3708 0.7368	0.4996 0.7303	0.7119 0.8308	0.7140	Qua	0.0834	0.5952	0.0086						0.9970		0.9900
Pyrene	1.5103 1.2479	1.2216 1.2762	1.2050 1.2811	1.3320 1.3206	1.1960	Ave		1.2878				7.5		15.0			
Butyl benzyl phthalate	0.6462	0.7110 0.6594	0.6481 0.6417	0.6563 0.6312	0.6297	Ave		0.6529				3.9		15.0			
Bis(2-ethylhexyl) phthalate	0.9491	0.8093 0.8993	0.8888 0.8500	0.9230 0.7610	0.8897	Ave		0.8713				7.1		15.0			
4,4'-Methylene bis(2-chloroaniline)	0.2298	0.1672 0.2390	0.1995 0.2329	0.2195 0.2166	0.2086	Ave		0.2141				11.0		15.0			
3,3'-Dichlorobenzidine	0.4303	0.3689 0.4442	0.3666 0.4414	0.4361 0.4335	0.4109	Ave		0.4165				7.6		15.0			
Benzo[a]anthracene	1.3239 1.2131	1.1318 1.1628	1.1220 1.1918	1.1603 1.2240	1.0783	Ave		1.1787				6.0		15.0			
Chrysene	1.2893 1.0566	1.1601 1.1089	1.0883 1.0879	1.1478 1.1677	1.0672	Ave		1.1304				6.4		15.0			
Di-n-octyl phthalate	1.7777	1.3921 1.8629	1.4721 1.8871	1.6873 1.9265	1.6847	Ave		1.7113				11.0		15.0			
Benzo[b]fluoranthene	1.4530 1.4514	1.1334 1.5026	1.0635 1.5098	1.1155 1.4110	1.2555	Ave		1.3217				14.0		15.0			
Benzo[k]fluoranthene	1.3126 1.1705	1.2804 1.1803	1.3645 1.2364	1.4101 1.4887	1.2278	Ave		1.2968				8.3		15.0			
Benzo[a]pyrene	1.2450 1.1683	1.0792 1.1872	1.1154 1.2010	1.1457 1.2714	1.1494	Ave		1.1736				5.2		15.0			
Indeno[1,2,3-cd]pyrene	1.1879 1.2873	1.1123 1.3034	1.1304 1.3187	1.2122 1.5418	1.2193	Ave		1.2570				10.0		15.0			
Dibenzo(a,h)anthracene	0.9752 1.0590	0.8458 1.0893	0.9172 1.1051	0.9536 1.3276	1.0136	Ave		1.0318				13.0		15.0			
Benzo[g,h,i]perylene	1.2322 1.0368	0.8793 1.0527	0.9241 1.0505	0.9966 1.1971	1.0128	Ave		1.0425				11.0		15.0			
2-Fluorophenol (Surr)	1.2836	1.2968 1.2621	1.2135 1.3126	1.4126 1.4449	1.2860	Ave		1.3140				5.9		15.0			
Phenol-d5 (Surr)	1.7520	1.8101 1.8633	1.7821 1.9262	1.8448 2.1101	1.7304	Ave		1.8524				6.6		15.0			
Nitrobenzene-d5 (Surr)	0.4609 0.4649	0.4728 0.4644	0.5082 0.4665	0.5172 0.4662	0.4771	Ave		0.4776				4.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6150

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2011 10:39 Calibration End Date: 06/27/2011 14:08 Calibration ID: 1854

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2-Fluorobiphenyl (Surr)	1.5405 1.2574	1.3561 1.3617	1.3263 1.4202	1.3814 1.4598	1.2596	Ave		1.3737				6.6		15.0			
2,4,6-Tribromophenol (Surr)	 0.1254	0.1032 0.1367	0.1213 0.1392	0.1275 0.1556	0.1253	Ave		0.1293				12.0		15.0			
Terphenyl-d14 (Surr)	0.6763 0.7266	0.6852 0.7425	0.7153 0.7393	0.7431 0.7881	0.7045	Ave		0.7245				4.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: 0629101B.D DFTPP Injection Date: 06/29/2011

Instrument ID: A4AG2 DFTPP Injection Time: 12:42

Analysis Batch No.: 6510

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	53.7	
68	Less than 2.0% of mass 69	0.3	(0.6)1
69	Mass 69 relative abundance	47.8	
70	Less than 2.0% of mass 69	0.5	(1.0)1
127	25.0 - 75.0% of mass 198	61.4	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.9	
275	10.0- 30.0% of mass 198	24.0	
365	Greater than 0.75% of mass 198	3.5	
441	Present, but less than mass 443	10.3	
442	40.0 - 110.0% of mass 198	83.8	
443	15.0 - 24.0% of mass 442	15.7	(18.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-6510/4	0629102.D	06/29/2011	12:59
	CCV 240-6510/5	0629103.D	06/29/2011	13:15
	MB 240-4330/21-A	0629104.D	06/29/2011	13:32
	LCS 240-4330/22-A	0629105.D	06/29/2011	13:49
MSA-SW39A-060811	240-948-2	0629128.D	06/29/2011	20:12
MSA-SW39B-060811	240-948-3	0629129.D	06/29/2011	20:29
MSA-SW39C-060811	240-948-4	0629130.D	06/29/2011	20:46
MSA-SW45A-060811	240-948-5	0629131.D	06/29/2011	21:02
MSA-SW45B-060811	240-948-6	0629132.D	06/29/2011	21:19
MSA-SW45C-060811	240-948-7	0629133.D	06/29/2011	21:35
MSA-SW44A-060811	240-948-8	0629134.D	06/29/2011	21:52
MSA-SW44B-060811	240-948-9	0629135.D	06/29/2011	22:09
MSA-SW44C-060811	240-948-10	0629136.D	06/29/2011	22:26

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-6510/4 Calibration Date: 06/29/2011 12:59

Instrument ID: A4AG2 Calib Start Date: 06/27/2011 10:39

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 06/27/2011 14:08

Lab File ID: 0629102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5755	0.6122		10.6	10.0	6.4	50.0
N-Nitrosodimethylamine	Ave	0.8999	0.9878		11.0	10.0	9.8	50.0
Pyridine	Ave	1.418	1.628		11.5	10.0	14.7	50.0
Ethyl methacrylate	Ave	1.188	1.288		10.8	10.0	8.5	50.0
3-Chloropropionitrile	Ave	0.6992	0.8032		11.5	10.0	14.9	50.0
Malononitrile	Ave	1.531	1.674		10.9	10.0	9.3	50.0
Benzaldehyde	Qua		0.8953		10.7	10.0	7.0	50.0
Phenol	Ave	1.924	2.004		10.4	10.0	4.1	20.0
Aniline	Ave	2.498	2.705		10.8	10.0	8.3	50.0
Bis(2-chloroethyl)ether	Ave	1.632	1.598		9.79	10.0	-2.1	50.0
2-Chlorophenol	Ave	1.453	1.416		9.75	10.0	-2.5	50.0
1,3-Dichlorobenzene	Ave	1.460	1.367		9.37	10.0	-6.3	50.0
1,4-Dichlorobenzene	Ave	1.518	1.434		9.45	10.0	-5.5	50.0
Benzyl alcohol	Ave	0.9238	0.9739		10.5	10.0	5.4	50.0
1,2-Dichlorobenzene	Ave	1.410	1.324		9.39	10.0	-6.1	50.0
2-Methylphenol	Ave	1.449	1.432		9.88	10.0	-1.2	50.0
2,2'-oxybis[1-chloropropane]	Ave	1.437	1.568		10.9	10.0	9.1	50.0
3 & 4 Methylphenol	Ave	1.436	1.539		10.7	10.0	7.2	50.0
N-Nitrosodi-n-propylamine	Ave	1.110	1.239	0.0500	11.2	10.0	11.6	50.0
Acetophenone	Ave	2.136	2.208		10.3	10.0	3.4	50.0
Hexachloroethane	Ave	0.6024	0.6105		10.1	10.0	1.3	50.0
Nitrobenzene	Ave	0.4282	0.5012		11.7	10.0	17.1	50.0
Isophorone	Ave	0.8120	0.9404		11.6	10.0	15.8	50.0
2,4-Dimethylphenol	Ave	0.4068	0.4707		11.6	10.0	15.7	50.0
2,4-Toluene diamine	Ave	0.1931	0.2244		11.6	10.0	16.2	50.0
2-Nitrophenol	Ave	0.1891	0.2057		10.9	10.0	8.8	20.0
1,3,5-Trichlorobenzene	Ave	0.3068	0.2990		9.74	10.0	-2.6	50.0
Bis(2-chloroethoxy)methane	Ave	0.4647	0.5200		11.2	10.0	11.9	50.0
Benzoic acid	Qua		0.2629		19.4	20.0	-3.0	50.0
2,4-Dichlorophenol	Qua		0.2950		10.6	10.0	6.0	20.0
1,2,4-Trichlorobenzene	Ave	0.2977	0.2911		9.78	10.0	-2.2	50.0
Naphthalene	Ave	1.159	1.153		9.95	10.0	-0.5	50.0
4-Chloroaniline	Ave	0.4668	0.5097		10.9	10.0	9.2	50.0
Hexachlorobutadiene	Ave	0.1364	0.1340		9.83	10.0	-1.7	20.0
1,2,3-Trichlorobenzene	Ave	0.2779	0.2671		9.61	10.0	-3.9	50.0
Caprolactam	Qua		0.1502		10.7	10.0	7.0	50.0
4-Chloro-3-methylphenol	Ave	0.3433	0.3972		11.6	10.0	15.7	20.0
2-Methylnaphthalene	Ave	0.5986	0.6018		10.1	10.0	0.5	50.0
1-Methylnaphthalene	Ave	0.7058	0.6942		9.84	10.0	-1.6	50.0
1,2,3,5-Tetrachlorobenzene	Ave	0.4729	0.4707		9.95	10.0	-0.5	50.0
Hexachlorocyclopentadiene	Qua		0.2888	0.0500	9.19	10.0	-8.1	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-6510/4 Calibration Date: 06/29/2011 12:59

Instrument ID: A4AG2 Calib Start Date: 06/27/2011 10:39

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 06/27/2011 14:08

Lab File ID: 0629102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,6-Trichlorophenol	Ave	0.3294	0.3413		10.4	10.0	3.6	20.0
2,4,5-Trichlorophenol	Ave	0.3579	0.3660		10.2	10.0	2.3	50.0
1,1'-Biphenyl	Ave	1.483	1.597		10.8	10.0	7.6	50.0
1,2,3,4 -Tetrachlorobenzene	Ave	0.4553	0.4529		9.95	10.0	-0.5	50.0
2-Chloronaphthalene	Ave	1.170	1.201		10.3	10.0	2.6	50.0
2-Nitroaniline	Ave	0.4216	0.5067		12.0	10.0	20.2	50.0
Dimethyl phthalate	Ave	1.370	1.403		10.2	10.0	2.4	50.0
2,6-Dinitrotoluene	Ave	0.2835	0.2913		10.3	10.0	2.8	50.0
1,2-Dinitrobenzene	Ave	0.1492	0.1552		10.4	10.0	4.0	50.0
Acenaphthylene	Ave	2.045	2.056		10.1	10.0	0.6	50.0
3-Nitroaniline	Ave	0.3678	0.4084		11.1	10.0	11.0	50.0
2,4-Dinitrophenol	Ave	0.2084	0.2063	0.0500	19.8	20.0	-1.0	50.0
Acenaphthene	Ave	1.254	1.279		10.2	10.0	2.0	20.0
4-Nitrophenol	Qua		0.3085	0.0500	14.2	10.0	42.0	50.0
2,4-Dinitrotoluene	Ave	0.3773	0.4124		10.9	10.0	9.3	50.0
Dibenzofuran	Ave	1.662	1.656		9.96	10.0	-0.4	50.0
2,3,5,6-Tetrachlorophenol	Qua		0.2605		10.4	10.0	4.0	50.0
Diethyl phthalate	Ave	1.418	1.420		10.0	10.0	0.2	50.0
4-Chlorophenyl phenyl ether	Ave	0.5796	0.5807		10.0	10.0	0.2	50.0
4-Nitroaniline	Ave	0.3940	0.4186		10.6	10.0	6.2	50.0
Fluorene	Ave	1.377	1.373		9.97	10.0	-0.3	50.0
4,6-Dinitro-2-methylphenol	Qua		0.1330		9.20	10.0	-8.0	50.0
N-Nitrosodiphenylamine	Ave	0.6718	0.6431		9.57	10.0	-4.3	20.0
Azobenzene	Ave	1.129	1.354		12.0	10.0	19.9	50.0
4-Bromophenyl phenyl ether	Ave	0.1902	0.1779		9.35	10.0	-6.5	50.0
Hexachlorobenzene	Ave	0.1980	0.1865		9.42	10.0	-5.8	50.0
Atrazine	Ave	0.2063	0.2089		10.1	10.0	1.2	50.0
Pentachlorophenol	Qua		0.1097		16.6	20.0	-17.0	20.0
Phenanthrene	Ave	1.257	1.205		9.59	10.0	-4.1	50.0
Anthracene	Ave	1.269	1.243		9.79	10.0	-2.1	50.0
Carbazole	Ave	1.235	1.209		9.79	10.0	-2.1	50.0
Di-n-butyl phthalate	Ave	1.486	1.572		10.6	10.0	5.8	50.0
Fluoranthene	Ave	1.226	1.194		9.74	10.0	-2.6	20.0
Benzidine	Qua		0.7515		10.8	10.0	8.0	50.0
Pyrene	Ave	1.288	1.254		9.74	10.0	-2.6	50.0
Butyl benzyl phthalate	Ave	0.6529	0.6783		10.4	10.0	3.9	50.0
3,3'-Dimethoxybenzidine	Ave	0.2555	0.2817		11.0	10.0	10.3	50.0
Bis(2-ethylhexyl) phthalate	Ave	0.8713	0.9692		11.1	10.0	11.2	50.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2141	0.2229		10.4	10.0	4.1	50.0
3,3'-Dichlorobenzidine	Ave	0.4165	0.4144		9.95	10.0	-0.5	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-6510/4 Calibration Date: 06/29/2011 12:59

Instrument ID: A4AG2 Calib Start Date: 06/27/2011 10:39

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 06/27/2011 14:08

Lab File ID: 0629102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[a]anthracene	Ave	1.179	1.142		9.69	10.0	-3.1	50.0
Chrysene	Ave	1.130	1.039		9.19	10.0	-8.1	50.0
Di-n-octyl phthalate	Ave	1.711	1.822		10.6	10.0	6.5	20.0
Benzo[b]fluoranthene	Ave	1.322	1.290		9.76	10.0	-2.4	50.0
Benzo[k]fluoranthene	Ave	1.297	1.270		9.79	10.0	-2.1	50.0
Benzo[a]pyrene	Ave	1.174	1.179		10.0	10.0	0.4	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.257	1.281		10.2	10.0	1.9	50.0
Dibenzo(a,h)anthracene	Ave	1.032	1.071		10.4	10.0	3.8	50.0
Benzo[g,h,i]perylene	Ave	1.042	1.067		10.2	10.0	2.3	50.0
2-Fluorophenol (Surr)	Ave	1.314	1.334		10.2	10.0	1.5	50.0
Phenol-d5 (Surr)	Ave	1.852	1.887		10.2	10.0	1.9	50.0
Nitrobenzene-d5 (Surr)	Ave	0.4776	0.5077		10.6	10.0	6.3	50.0
2-Fluorobiphenyl (Surr)	Ave	1.374	1.347		9.81	10.0	-1.9	50.0
2,4,6-Tribromophenol (Surr)	Ave	0.1293	0.1358		10.5	10.0	5.0	50.0
Terphenyl-d14 (Surr)	Ave	0.7245	0.7239		10.0	10.0	-0.0	50.0

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: 0629104.D Lab Sample ID: MB 240-4330/21-A

Matrix: Water Date Extracted: 06/10/2011 10:54

Instrument ID: A4AG2 Date Analyzed: 06/29/2011 13:32

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-4330/22-A	0629105.D	06/29/2011 13:49
MSA-SW39A-060811	240-948-2	0629128.D	06/29/2011 20:12
MSA-SW39B-060811	240-948-3	0629129.D	06/29/2011 20:29
MSA-SW39C-060811	240-948-4	0629130.D	06/29/2011 20:46
MSA-SW45A-060811	240-948-5	0629131.D	06/29/2011 21:02
MSA-SW45B-060811	240-948-6	0629132.D	06/29/2011 21:19
MSA-SW45C-060811	240-948-7	0629133.D	06/29/2011 21:35
MSA-SW44A-060811	240-948-8	0629134.D	06/29/2011 21:52
MSA-SW44B-060811	240-948-9	0629135.D	06/29/2011 22:09
MSA-SW44C-060811	240-948-10	0629136.D	06/29/2011 22:26

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-4330/21-A

Matrix: Water | Lab File ID: 0629104.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1000(mL) | Date Analyzed: 06/29/2011 13:32

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	1.0	U	1.0	0.80
123-91-1	1,4-Dioxane	1.0	U	1.0	0.49
88-06-2	2,4,6-Trichlorophenol	5.0	U	5.0	0.80
95-95-4	2,4,5-Trichlorophenol	5.0	U	5.0	0.30
120-83-2	2,4-Dichlorophenol	2.0	U	2.0	0.80
105-67-9	2,4-Dimethylphenol	2.0	U	2.0	0.80
51-28-5	2,4-Dinitrophenol	5.0	U	5.0	2.4
121-14-2	2,4-Dinitrotoluene	5.0	U	5.0	0.27
91-58-7	2-Chloronaphthalene	1.0	U	1.0	0.10
95-57-8	2-Chlorophenol	1.0	U	1.0	0.29
91-57-6	2-Methylnaphthalene	0.20	U	0.20	0.10
95-48-7	2-Methylphenol	1.0	U	1.0	0.80
88-74-4	2-Nitroaniline	2.0	U	2.0	0.80
88-75-5	2-Nitrophenol	2.0	U	2.0	0.28
15831-10-4	3 & 4 Methylphenol	2.0	U	2.0	0.75
91-94-1	3,3'-Dichlorobenzidine	5.0	U	5.0	0.37
99-09-2	3-Nitroaniline	2.0	U	2.0	0.28
534-52-1	4,6-Dinitro-2-methylphenol	5.0	U	5.0	2.4
101-55-3	4-Bromophenyl phenyl ether	2.0	U	2.0	0.80
59-50-7	4-Chloro-3-methylphenol	2.0	U	2.0	0.80
106-47-8	4-Chloroaniline	2.0	U	2.0	0.80
7005-72-3	4-Chlorophenyl phenyl ether	2.0	U	2.0	0.30
100-01-6	4-Nitroaniline	2.0	U	2.0	0.80
83-32-9	Acenaphthene	0.20	U	0.20	0.10
208-96-8	Acenaphthylene	0.20	U	0.20	0.10
98-86-2	Acetophenone	1.0	U	1.0	0.34
120-12-7	Anthracene	0.20	U	0.20	0.10
1912-24-9	Atrazine	1.0	U	1.0	0.34
100-52-7	Benzaldehyde	1.0	U	1.0	0.39
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.10
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.10
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.10
191-24-2	Benzo[g,h,i]perylene	0.20	U	0.20	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.10

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-4330/21-A

Matrix: Water | Lab File ID: 0629104.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1000(mL) | Date Analyzed: 06/29/2011 13:32

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	1.0	U	1.0	0.32
111-44-4	Bis(2-chloroethyl)ether	1.0	U	1.0	0.10
117-81-7	Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80
85-68-7	Butyl benzyl phthalate	1.0	U	1.0	0.80
105-60-2	Caprolactam	5.0	U	5.0	0.80
86-74-8	Carbazole	1.0	U	1.0	0.28
218-01-9	Chrysene	0.20	U	0.20	0.10
84-74-2	Di-n-butyl phthalate	1.0	U	1.0	0.67
117-84-0	Di-n-octyl phthalate	1.0	U	1.0	0.80
53-70-3	Dibenzo(a,h)anthracene	0.20	U	0.20	0.10
132-64-9	Dibenzofuran	1.0	U	1.0	0.10
84-66-2	Diethyl phthalate	1.0	U	1.0	0.60
131-11-3	Dimethyl phthalate	1.0	U	1.0	0.29
206-44-0	Fluoranthene	0.20	U	0.20	0.10
86-73-7	Fluorene	0.20	U	0.20	0.10
118-74-1	Hexachlorobenzene	0.20	U	0.20	0.10
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.27
77-47-4	Hexachlorocyclopentadiene	10	U	10	0.80
67-72-1	Hexachloroethane	1.0	U	1.0	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10
78-59-1	Isophorone	1.0	U	1.0	0.27
621-64-7	N-Nitrosodi-n-propylamine	1.0	U	1.0	0.80
62-75-9	N-Nitrosodimethylamine	1.0	U	1.0	0.31
86-30-6	N-Nitrosodiphenylamine	1.0	U	1.0	0.31
91-20-3	Naphthalene	0.20	U	0.20	0.10
98-95-3	Nitrobenzene	1.0	U	1.0	0.040
87-86-5	Pentachlorophenol	5.0	U	5.0	2.4
85-01-8	Phenanthrene	0.20	U	0.20	0.10
108-95-2	Phenol	1.0	U	1.0	0.60
129-00-0	Pyrene	0.20	U	0.20	0.10
108-60-1	2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.40
606-20-2	2,6-Dinitrotoluene	5.0	U	5.0	0.80
100-02-7	4-Nitrophenol	5.0	U	5.0	2.4

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-4330/21-A

Matrix: Water | Lab File ID: 0629104.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 06/10/2011 10:54

Sample wt/vol: 1000(mL) | Date Analyzed: 06/29/2011 13:32

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 6510 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	61		37-119
4165-62-2	Phenol-d5 (Surr)	56		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	53		27-111
367-12-4	2-Fluorophenol (Surr)	55		10-110
321-60-8	2-Fluorobiphenyl (Surr)	51		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	51		22-120

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: 0630101B.D DFTPP Injection Date: 06/30/2011

Instrument ID: A4AG2 DFTPP Injection Time: 13:42

Analysis Batch No.: 6758

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	41.4	
68	Less than 2.0% of mass 69	0.8	(1.9)1
69	Mass 69 relative abundance	42.1	
70	Less than 2.0% of mass 69	0.2	(0.4)1
127	25.0 - 75.0% of mass 198	56.7	
197	Less than 1.0% of mass 198	0.1	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.9	
275	10.0- 30.0% of mass 198	22.0	
365	Greater than 0.75% of mass 198	2.9	
441	Present, but less than mass 443	7.7	
442	40.0 - 110.0% of mass 198	53.0	
443	15.0 - 24.0% of mass 442	11.0	(20.7)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD9 240-6758/4	0630102.D	06/30/2011	13:59
	STD8 240-6758/5	0630103.D	06/30/2011	14:15
	STD7 240-6758/6	0630104.D	06/30/2011	14:32
	STD6 240-6758/7	0630105.D	06/30/2011	14:49
	STD5 240-6758/8	0630106.D	06/30/2011	15:05
	STD4 240-6758/9	0630107.D	06/30/2011	15:22
	STD3 240-6758/10	0630108.D	06/30/2011	15:39
	STD2 240-6758/11	0630109.D	06/30/2011	15:56
	STD1 240-6758/12	0630110.D	06/30/2011	16:13
	ICV 240-6758/13	0630111.D	06/30/2011	16:29

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6758

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2011 13:59 Calibration End Date: 06/30/2011 16:13 Calibration ID: 1920

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-6758/12	0630110.D
Level 2	STD2 240-6758/11	0630109.D
Level 3	STD3 240-6758/10	0630108.D
Level 4	STD4 240-6758/9	0630107.D
Level 5	STD5 240-6758/8	0630106.D
Level 6	STD6 240-6758/7	0630105.D
Level 7	STD7 240-6758/6	0630104.D
Level 8	STD8 240-6758/5	0630103.D
Level 9	STD9 240-6758/4	0630102.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dioxane	0.5312	0.5669 0.5247	0.5567 0.5088	0.5481 0.5408	0.5144	Ave		0.5365				3.8		15.0			
N-Nitrosodimethylamine	0.8964	0.9406 0.9089	0.9275 0.8760	0.9403 0.9369	0.9159	Ave		0.9178				2.5		15.0			
Pyridine	1.4255	1.4190 1.4366	1.2605 1.4132	1.4106 1.5103	1.4319	Ave		1.4134				4.9		15.0			
Ethyl methacrylate	1.1505	1.2062 1.1253	1.2323 1.0794	1.2270 1.1354	1.1703	Ave		1.1658				4.6		15.0			
3-Chloropropionitrile	0.7614	0.7928 0.7474	0.8089 0.7290	0.7982 0.7740	0.7790	Ave		0.7738				3.5		15.0			
Malononitrile	1.6286	1.6134 1.5766	1.6418 1.5934	1.6420 1.5630	1.6391	Ave		1.6122				1.9		15.0			
Benzoic acid	0.2249	+++++ 0.2304	+++++ 0.2427	0.1143 0.2628	0.1794	Qua	-0.359	0.2083	0.0012						0.9990		0.9900
Benzaldehyde	0.8592	1.1945 0.8551	1.2005	1.2052	1.1269	Qua	0.3010	1.0169	-0.013						0.9930		0.9900
Phenol	1.7400	1.6739 1.6943	1.7321 1.6623	1.7958 1.7122	1.7908	Ave		1.7252				2.9		15.0			
Aniline	2.3732	2.0960 2.2594	2.1859 2.2093	2.3304 2.4575	2.3238	Ave		2.2794				5.1		15.0			
Bis(2-chloroethyl)ether	1.3584	1.5149 1.3761	1.5347 1.3807	1.4782 1.3244	1.4298	Ave		1.4246				5.4		15.0			
2-Chlorophenol	1.3904	1.3277 1.3825	1.3893 1.3217	1.4388 1.3371	1.4391	Ave		1.3783				3.4		15.0			
1,3-Dichlorobenzene	1.4353	1.4865 1.4128	1.5026 1.3724	1.5137 1.3806	1.4670	Ave		1.4464				3.8		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6758

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2011 13:59 Calibration End Date: 06/30/2011 16:13 Calibration ID: 1920

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dichlorobenzene	1.4805	1.5524 1.4569	1.5700 1.4012	1.5618 1.4215	1.5375	Ave		1.4977				4.4		15.0			
Benzyl alcohol	0.9038	0.7393 0.8960	0.7643 0.9053	0.8883 0.9446	0.9134	Ave		0.8694				8.6		15.0			
1,2-Dichlorobenzene	1.3472	1.4388 1.3125	1.4300 1.2597	1.4447 1.2423	1.4110	Ave		1.3608				6.0		15.0			
2-Methylphenol	1.3374	1.2660 1.3187	1.3160 1.2661	1.3598 1.3061	1.3851	Ave		1.3194				3.2		15.0			
2,2'-oxybis[1-chloropropane]	1.7547	1.9444 1.7121	1.9442 1.6492	1.9152 1.6895	1.8769	Ave		1.8108				6.8		15.0			
3 & 4 Methylphenol	1.3649	1.1916 1.3723	1.3053 1.3329	1.4212 1.3795	1.4333	Ave		1.3501				5.7		15.0			
N-Nitrosodi-n-propylamine	0.9976	0.9959 0.9353	1.0489 0.8710	1.0715 0.8734	1.0659	Ave		0.9824			0.0500	8.3		15.0			
Acetophenone	1.8358	1.8156 1.7537	1.8890 1.6416	1.9359 1.6490	1.9377	Ave		1.8073				6.5		15.0			
Hexachloroethane	0.5267	0.5216 0.5246	0.5526 0.5046	0.5617 0.5088	0.5480	Ave		0.5311				3.9		15.0			
Nitrobenzene	0.3594	0.3387 0.3546	0.3657 0.3478	0.3814 0.3567	0.3622	Ave		0.3583				3.5		15.0			
Isophorone	0.7015	0.6806 0.6793	0.7208 0.6583	0.7393 0.7132	0.7171	Ave		0.7013				3.8		15.0			
Caprolactam	0.1246	+++++ 0.1226	0.0820 0.1185	0.1196 0.1290	0.1262	Ave		0.1175				14.0		15.0			
2,4-Dimethylphenol	0.3359	0.3082 0.3133	0.3278 0.2917	0.3518 0.2882	0.3478	Ave		0.3206				7.5		15.0			
2,4-Toluene diamine	0.1736	0.1642 0.1597	0.1698 0.1492	0.1833 0.1441	0.1809	Ave		0.1656				8.5		15.0			
2-Nitrophenol	0.1734	0.1265 0.1662	0.1600 0.1556	0.1786 0.1489	0.1786	Ave		0.1610				11.0		15.0			
1,3,5-Trichlorobenzene	0.2658	0.2717 0.2632	0.2786 0.2530	0.2763 0.2462	0.2706	Ave		0.2657				4.2		15.0			
Bis(2-chloroethoxy)methane	0.3923	0.3699 0.3799	0.4047 0.3648	0.4199 0.3828	0.4066	Ave		0.3901				4.9		15.0			
2,4-Dinitrophenol	0.1512	+++++ 0.1511	+++++ 0.1476	0.0794 0.1577	0.1296	Qua	-0.260	0.1554	0.0001		0.0500				0.9980		0.9900
2,4-Dichlorophenol	0.2723	0.1943 0.2614	0.2464 0.2555	0.2682 0.2698	0.2667	Ave		0.2543				10.0		15.0			
4-Nitrophenol	0.1400	+++++ 0.1475	+++++ 0.1629	0.0860 0.1824	0.1193	Qua	-0.019	0.1044	0.0031		0.0500				0.9990		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6758

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2011 13:59 Calibration End Date: 06/30/2011 16:13 Calibration ID: 1920

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	0.2680	0.2651 0.2651	0.2739 0.2597	0.2724 0.2616	0.2666	Ave		0.2665				1.8		15.0			
Naphthalene	1.2057 1.0653	1.0991 1.0178	1.1148 0.8598	1.1212 0.7784	1.0865	Ave		1.0387				13.0		15.0			
4-Chloroaniline	0.4437	0.4088 0.4370	0.4436 0.4211	0.4633 0.4568	0.4692	Ave		0.4429				4.7		15.0			
Hexachlorobutadiene	0.1153	0.1143 0.1160	0.1140 0.1139	0.1170 0.1157	0.1137	Ave		0.1150				1.0		15.0			
1,2,3-Trichlorobenzene	0.2503	0.2442 0.2493	0.2496 0.2435	0.2574 0.2473	0.2476	Ave		0.2486				1.7		15.0			
4-Chloro-3-methylphenol	0.3078	0.2337 0.2920	0.2818 0.2838	0.3100 0.3093	0.3072	Ave		0.2907				8.9		15.0			
2-Methylnaphthalene	0.5719 0.5689	0.5753 0.5523	0.5893 0.5293	0.5953 0.5367	0.5858	Ave		0.5672				4.1		15.0			
1-Methylnaphthalene	0.6848 0.6446	0.6697 0.6198	0.6937 0.5892	0.6957 0.5842	0.6690	Ave		0.6501				6.6		15.0			
1,2,3,5-Tetrachlorobenzene	0.3958	0.4045 0.3934	0.4052 0.3748	0.4146 0.3766	0.4070	Ave		0.3965				3.6		15.0			
Hexachlorocyclopentadiene	0.2447	0.1504 0.2491	0.1879 0.2413	0.2230 0.2432	0.2378	Qua	-0.065	0.2565	0		0.0500				1.0000		0.9900
2,4,6-Trichlorophenol	0.2878	0.1920 0.3002	0.2401 0.2977	0.2774 0.3092	0.2856	Ave		0.2738				14.0		15.0			
2,4,5-Trichlorophenol	0.3294	0.2598 0.3043	0.2934 0.3233	0.3210 0.3483	0.3185	Ave		0.3123				8.6		15.0			
1,1'-Biphenyl	1.5367 1.3452	1.4973 1.2676	1.5249 1.1509	1.5621 1.1239	1.4913	Ave		1.3889				12.0		15.0			
1,2,3,4 -Tetrachlorobenzene	0.3653	0.3986 0.3577	0.3825 0.3450	0.3995 0.3480	0.3801	Ave		0.3721				5.7		15.0			
2-Chloronaphthalene	1.1287 1.0687	1.0884 1.0694	1.1058 1.0351	1.1207 1.0413	1.0839	Ave		1.0824				3.0		15.0			
4-Nitroaniline	0.3740	+++++ 0.3677	0.3318 0.3501	0.3652 0.3569	0.3913	Ave		0.3624				5.2		15.0			
2-Nitroaniline	0.3557	0.3323 0.3551	0.3337 0.3506	0.3573 0.3674	0.3594	Ave		0.3514				3.5		15.0			
4,6-Dinitro-2-methylphenol	0.1093	+++++ 0.1149	0.0483 0.1142	0.0740 0.1244	0.0981	Qua	-0.052	0.1033	0.0009						0.9990		0.9900
Dimethyl phthalate	1.2491	1.2781 1.2675	1.2361 1.2303	1.2875 1.2917	1.2866	Ave		1.2659				1.9		15.0			
2,6-Dinitrotoluene	0.2701	0.2141 0.2788	0.2357 0.2736	0.2611 0.2870	0.2721	Ave		0.2616				9.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6758

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2011 13:59 Calibration End Date: 06/30/2011 16:13 Calibration ID: 1920

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2-Dinitrobenzene	0.1422	0.0968 0.1445	0.1153 0.1415	0.1317 0.1498	0.1403	Ave		0.1328				13.0		15.0			
Acenaphthylene	2.0413 1.9179	1.9436 1.8565	1.9330 1.6453	2.0177 1.5629	1.9684	Ave		1.8763				8.8		15.0			
3-Nitroaniline	0.3634	0.2919 0.3655	0.3102 0.3617	0.3522 0.3822	0.3652	Ave		0.3490				8.9		15.0			
Acenaphthene	1.3237 1.0811	1.1811 1.0141	1.1829 0.9432	1.2150 0.9236	1.1546	Ave		1.1133				12.0		15.0			
2,4-Dinitrotoluene	0.3662	0.2576 0.3729	0.3088 0.3662	0.3558 0.3895	0.3678	Ave		0.3481				12.0		15.0			
Pentachlorophenol	0.1066	+++++ 0.1154	0.0606 0.1163	0.0789 0.1188	0.0969	Qua	-0.134	0.1116	0.0002						1.0000		0.9900
Dibenzofuran	1.7771 1.5435	1.5827 1.5258	1.5659 1.4610	1.6029 1.3557	1.5842	Ave		1.5554				7.3		15.0			
2,3,5,6-Tetrachlorophenol	0.2052	0.1070 0.2144	0.1669 0.2092	0.1822 0.2216	0.1946	Qua	-0.037	0.1988	0.0009						0.9990		0.9900
Diethyl phthalate	1.2824	1.3128 1.2691	1.2926 1.2449	1.3476 1.2346	1.3299	Ave		1.2892				3.1		15.0			
4-Chlorophenyl phenyl ether	0.5075	0.4975 0.5141	0.5061 0.4946	0.5216 0.5075	0.5200	Ave		0.5086				1.9		15.0			
Fluorene	1.4451 1.2414	1.3246 1.2081	1.3202 1.1406	1.3686 1.1357	1.3080	Ave		1.2769				8.1		15.0			
N-Nitrosodiphenylamine	0.5998	0.6342 0.6256	0.6420 0.6077	0.6531 0.5954	0.6449	Ave		0.6253				3.5		15.0			
1,2-Diphenylhydrazine	0.9099	0.9611 0.8953	0.9759 0.8726	1.0219 0.8554	0.9664	Ave		0.9330				6.2		15.0			
Azobenzene	0.9099	0.9664 0.8955	0.9757 0.8726	1.0219 0.8554	0.9664	Ave		0.9330				6.2		15.0			
4-Bromophenyl phenyl ether	0.1641	0.1630 0.1698	0.1668 0.1657	0.1705 0.1732	0.1665	Ave		0.1675				2.1		15.0			
Hexachlorobenzene	0.1580 0.1696	0.1596 0.1710	0.1599 0.1737	0.1664 0.1806	0.1650	Ave		0.1671				4.4		15.0			
Atrazine	0.1813	0.1842 0.1836	0.1896 0.1712	0.1986 0.1700	0.1935	Ave		0.1840				5.4		15.0			
Phenanthrene	1.2560 1.1384	1.1803 1.1256	1.1796 1.0422	1.2235 0.9846	1.1871	Ave		1.1464				7.5		15.0			
Anthracene	1.3645 1.1590	1.1962 1.1364	1.1804 1.0447	1.2354 1.0122	1.2025	Ave		1.1701				8.9		15.0			
Carbazole	1.1585	1.1718 1.1444	1.1885 1.0630	1.2264 1.0230	1.1838	Ave		1.1449				6.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6758

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2011 13:59 Calibration End Date: 06/30/2011 16:13 Calibration ID: 1920

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Di-n-butyl phthalate	1.4112	1.4190 1.2213	1.4457 1.1095	1.5202 1.0687	1.5005	Ave		1.3370				13.0		15.0			
Fluoranthene	1.1850 1.0846	1.0813 1.0818	1.1004 1.0350	1.1332 0.9751	1.1156	Ave		1.0880				5.4		15.0			
Benzidine	0.8184	0.4321 0.8410	0.4815 0.8258	0.6549 0.8733	0.7858	Qua	-0.232	0.8016	0.0029						0.9990		0.9900
Pyrene	1.5454 1.2611	1.3077 1.2801	1.3357 1.2653	1.3276 1.1491	1.3073	Ave		1.3088				8.0		15.0			
Butyl benzyl phthalate	0.6887	0.6582 0.6925	0.6961 0.6819	0.7971 0.7043	0.7124	Ave		0.7039				5.8		15.0			
3,3'-Dimethoxybenzidine	0.2771	0.1490 0.2250	0.1706 0.2473	0.2143 0.2655	0.2331	Qua	-0.003	0.2232	0.0015						0.9930		0.9900
Bis(2-ethylhexyl) phthalate	0.9657	0.9707 0.9674	0.9973 0.9112	1.0322 0.8388	1.0124	Ave		0.9620				6.4		15.0			
4,4'-Methylene bis(2-chloroaniline)	0.2075	0.1670 0.2105	0.1809 0.2046	0.1985 0.2181	0.2060	Ave		0.1991				8.5		15.0			
3,3'-Dichlorobenzidine	0.4187	0.3621 0.4238	0.3902 0.4232	0.4030 0.4443	0.4175	Ave		0.4104				6.1		15.0			
Benzo[a]anthracene	1.3235 1.0824	1.0720 1.0947	1.0799 1.0902	1.1154 1.1646	1.0854	Ave		1.1231				7.1		15.0			
Chrysene	1.2744 1.0329	1.0703 1.0584	1.0542 1.0648	1.0650 1.0834	1.0379	Ave		1.0824				6.8		15.0			
Di-n-octyl phthalate	1.9440	1.6414 1.9001	1.7861 1.7448	1.9305 1.6120	1.9529	Ave		1.8140				7.6		15.0			
Benzo[b]fluoranthene	1.2569 1.1924	1.0797 1.2152	1.1482 1.2316	1.1852 1.4738	1.2295	Ave		1.2236				8.8		15.0			
Benzo[k]fluoranthene	1.4899 1.3143	1.2663 1.2862	1.2322 1.3343	1.2673 1.2256	1.2359	Ave		1.2947				6.3		15.0			
Benzo[a]pyrene	1.2068 1.1417	1.0777 1.1680	1.0965 1.1692	1.1217 1.2384	1.1341	Ave		1.1505				4.4		15.0			
Indeno[1,2,3-cd]pyrene	1.2972 1.2922	1.1551 1.3235	1.1877 1.3319	1.2639 1.3453	1.2727	Ave		1.2744				5.1		15.0			
Dibenzo(a,h)anthracene	1.0230 1.0973	0.9339 1.1314	0.9824 1.1370	1.0463 1.1986	1.0815	Ave		1.0702				7.7		15.0			
Benzo[g,h,i]perylene	0.8928 1.0368	0.9523 1.0629	0.9678 1.0810	1.0259 1.1522	1.0157	Ave		1.0208				7.5		15.0			
2-Fluorophenol (Surr)	1.2720	1.2009 1.2385	1.2778 1.2013	1.2908 1.2671	1.2681	Ave		1.2521				2.8		15.0			
Phenol-d5 (Surr)	1.6161	1.6006 1.5967	1.5970 1.5532	1.7221 1.6263	1.6763	Ave		1.6236				3.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6758

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2011 13:59 Calibration End Date: 06/30/2011 16:13 Calibration ID: 1920

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Nitrobenzene-d5 (Surr)	0.3966 0.3867	0.3631 0.3816	0.3848 0.3750	0.3991 0.3747	0.3890	Ave		0.3834				3.0		15.0			
2-Fluorobiphenyl (Surr)	1.2845 1.2274	1.2460 1.2141	1.2446 1.1689	1.3056 1.1707	1.2650	Ave		1.2363				3.8		15.0			
2,4,6-Tribromophenol (Surr)	 0.1053	0.0719 0.1117	0.0827 0.1120	0.0967 0.1189	0.1019	Qua	-0.010	0.0986	0.0008						1.0000		0.9900
Terphenyl-d14 (Surr)	0.7424 0.6925	0.6863 0.7041	0.6980 0.7020	0.7088 0.7176	0.6937	Ave		0.7050				2.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: 0705101B.D DFTPP Injection Date: 07/05/2011

Instrument ID: A4AG2 DFTPP Injection Time: 11:24

Analysis Batch No.: 7093

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	33.6	
68	Less than 2.0% of mass 69	0.7	(2.0)1
69	Mass 69 relative abundance	35.6	
70	Less than 2.0% of mass 69	0.2	(0.6)1
127	25.0 - 75.0% of mass 198	51.8	
197	Less than 1.0% of mass 198	0.1	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.8	
275	10.0- 30.0% of mass 198	24.6	
365	Greater than 0.75% of mass 198	3.3	
441	Present, but less than mass 443	10.1	
442	40.0 - 110.0% of mass 198	69.0	
443	15.0 - 24.0% of mass 442	13.8	(20.1)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-7093/4	0705102.D	07/05/2011	11:41
	CCV 240-7093/5	0705103.D	07/05/2011	11:57
	MB 240-4415/21-A	0705104.D	07/05/2011	12:14
	LCS 240-4415/22-A	0705105.D	07/05/2011	12:31
MSA-SW41A-060811	240-948-11	0705113.D	07/05/2011	14:44
MSA-SW41C-060811	240-948-13	0705115.D	07/05/2011	15:17
MSA-SW38A-060811	240-948-14	0705116.D	07/05/2011	15:34
MSA-SW38B-060811	240-948-15	0705117.D	07/05/2011	15:51
MSA-SW38C-060811	240-948-16	0705118.D	07/05/2011	16:08
MSA-SW43A-060811	240-948-17	0705119.D	07/05/2011	16:24
MSA-SW43B-060811	240-948-18	0705120.D	07/05/2011	16:41
MSA-SW43C-060811	240-948-19	0705121.D	07/05/2011	16:58
MSA-SW40A-060811	240-948-20	0705122.D	07/05/2011	17:14
MSA-SW42C-060811	240-948-25	0705125.D	07/05/2011	18:04
MSA-SW37A-060811	240-948-26	0705126.D	07/05/2011	18:21
MSA-SW37B-060811	240-948-27	0705127.D	07/05/2011	18:38
MSA-SW37C-060811	240-948-28	0705128.D	07/05/2011	18:54
MSA-SW40B-060811	240-948-21	0705129.D	07/05/2011	19:11
MSA-SW40C-060811	240-948-22	0705130.D	07/05/2011	19:28
MSA-SW42A-060811	240-948-23	0705131.D	07/05/2011	19:44
MSA-SW42B-060811	240-948-24	0705132.D	07/05/2011	20:01

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-7093/4 Calibration Date: 07/05/2011 11:41

Instrument ID: A4AG2 Calib Start Date: 06/30/2011 13:59

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 06/30/2011 16:13

Lab File ID: 0705102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5365	0.6443		12.0	10.0	20.1	50.0
N-Nitrosodimethylamine	Ave	0.9178	0.8312		9.06	10.0	-9.4	50.0
Pyridine	Ave	1.413	1.304		9.23	10.0	-7.7	50.0
Ethyl methacrylate	Ave	1.166	1.024		8.78	10.0	-12.2	50.0
3-Chloropropionitrile	Ave	0.7738	0.6979		9.02	10.0	-9.8	50.0
Malononitrile	Ave	1.612	1.466		9.09	10.0	-9.1	50.0
Benzaldehyde	Qua		0.6282		6.41	10.0	-35.9	50.0
Phenol	Ave	1.725	1.688		9.78	10.0	-2.2	20.0
Aniline	Ave	2.279	2.179		9.56	10.0	-4.4	50.0
Bis(2-chloroethyl)ether	Ave	1.425	1.454		10.2	10.0	2.0	50.0
2-Chlorophenol	Ave	1.378	1.420		10.3	10.0	3.0	50.0
1,3-Dichlorobenzene	Ave	1.446	1.467		10.1	10.0	1.5	50.0
1,4-Dichlorobenzene	Ave	1.498	1.528		10.2	10.0	2.0	50.0
Benzyl alcohol	Ave	0.8694	0.8945		10.3	10.0	2.9	50.0
1,2-Dichlorobenzene	Ave	1.361	1.389		10.2	10.0	2.1	50.0
2-Methylphenol	Ave	1.319	1.409		10.7	10.0	6.8	50.0
2,2'-oxybis[1-chloropropane]	Ave	1.811	1.596		8.81	10.0	-11.9	50.0
3 & 4 Methylphenol	Ave	1.350	1.383		10.2	10.0	2.4	50.0
N-Nitrosodi-n-propylamine	Ave	0.9824	0.9392	0.0500	9.56	10.0	-4.4	50.0
Acetophenone	Ave	1.807	1.822		10.1	10.0	0.8	50.0
Hexachloroethane	Ave	0.5311	0.5286		9.95	10.0	-0.5	50.0
Nitrobenzene	Ave	0.3583	0.3492		9.75	10.0	-2.5	50.0
Isophorone	Ave	0.7013	0.6804		9.70	10.0	-3.0	50.0
2-Nitrophenol	Ave	0.1610	0.1924		12.0	10.0	19.5	20.0
2,4-Dimethylphenol	Ave	0.3206	0.3336		10.4	10.0	4.1	50.0
2,4-Toluene diamine	Ave	0.1656	0.1723		10.4	10.0	4.1	50.0
1,3,5-Trichlorobenzene	Ave	0.2657	0.2736		10.3	10.0	3.0	50.0
Bis(2-chloroethoxy)methane	Ave	0.3901	0.3851		9.87	10.0	-1.3	50.0
Benzoic acid	Qua		0.2112		19.8	20.0	-1.0	50.0
2,4-Dichlorophenol	Ave	0.2543	0.2878		11.3	10.0	13.2	20.0
1,2,4-Trichlorobenzene	Ave	0.2665	0.2832		10.6	10.0	6.2	50.0
Naphthalene	Ave	1.039	1.072		10.3	10.0	3.2	50.0
4-Chloroaniline	Ave	0.4429	0.4463		10.1	10.0	0.8	50.0
Hexachlorobutadiene	Ave	0.1150	0.1252		10.9	10.0	8.8	20.0
1,2,3-Trichlorobenzene	Ave	0.2486	0.2656		10.7	10.0	6.8	50.0
Caprolactam	Ave	0.1175	0.1247		10.6	10.0	6.2	50.0
4-Chloro-3-methylphenol	Ave	0.2907	0.3133		10.8	10.0	7.8	20.0
2-Methylnaphthalene	Ave	0.5672	0.5942		10.5	10.0	4.8	50.0
1-Methylnaphthalene	Ave	0.6501	0.6697		10.3	10.0	3.0	50.0
1,2,3,5-Tetrachlorobenzene	Ave	0.3965	0.4209		10.6	10.0	6.1	50.0
Hexachlorocyclopentadiene	Qua		0.2678	0.0500	10.9	10.0	9.0	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-7093/4 Calibration Date: 07/05/2011 11:41

Instrument ID: A4AG2 Calib Start Date: 06/30/2011 13:59

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 06/30/2011 16:13

Lab File ID: 0705102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,6-Trichlorophenol	Ave	0.2738	0.3236		11.8	10.0	18.2	20.0
2,4,5-Trichlorophenol	Ave	0.3123	0.3588		11.5	10.0	14.9	50.0
1,1'-Biphenyl	Ave	1.389	1.401		10.1	10.0	0.9	50.0
1,2,3,4 -Tetrachlorobenzene	Ave	0.3721	0.3927		10.6	10.0	5.5	50.0
2-Chloronaphthalene	Ave	1.082	1.114		10.3	10.0	2.9	50.0
2-Nitroaniline	Ave	0.3514	0.3447		9.81	10.0	-1.9	50.0
Dimethyl phthalate	Ave	1.266	1.330		10.5	10.0	5.1	50.0
2,6-Dinitrotoluene	Ave	0.2616	0.2903		11.1	10.0	11.0	50.0
1,2-Dinitrobenzene	Ave	0.1328	0.1533		11.5	10.0	15.5	50.0
Acenaphthylene	Ave	1.876	1.985		10.6	10.0	5.8	50.0
3-Nitroaniline	Ave	0.3490	0.3780		10.8	10.0	8.3	50.0
Acenaphthene	Ave	1.113	1.116		10.0	10.0	0.3	20.0
2,4-Dinitrophenol	Qua		0.1861	0.0500	25.2	20.0	26.0	50.0
4-Nitrophenol	Qua		0.1694	0.0500	12.1	10.0	21.0	50.0
2,4-Dinitrotoluene	Ave	0.3481	0.3899		11.2	10.0	12.0	50.0
Dibenzofuran	Ave	1.555	1.624		10.4	10.0	4.4	50.0
2,3,5,6-Tetrachlorophenol	Qua		0.2204		10.7	10.0	7.0	50.0
Diethyl phthalate	Ave	1.289	1.323		10.3	10.0	2.6	50.0
4-Chlorophenyl phenyl ether	Ave	0.5086	0.5430		10.7	10.0	6.8	50.0
Fluorene	Ave	1.277	1.317		10.3	10.0	3.1	50.0
4-Nitroaniline	Ave	0.3624	0.3870		10.7	10.0	6.8	50.0
4,6-Dinitro-2-methylphenol	Qua		0.1248		11.5	10.0	15.0	50.0
N-Nitrosodiphenylamine	Ave	0.6253	0.6286		10.1	10.0	0.5	20.0
1,2-Diphenylhydrazine	Ave	0.9330	0.8491		9.10	10.0	-9.0	50.0
Azobenzene	Ave	0.9330	0.8491		9.10	10.0	-9.0	50.0
4-Bromophenyl phenyl ether	Ave	0.1675	0.1766		10.5	10.0	5.5	50.0
Hexachlorobenzene	Ave	0.1671	0.1815		10.9	10.0	8.6	50.0
Atrazine	Ave	0.1840	0.1915		10.4	10.0	4.1	50.0
Pentachlorophenol	Qua		0.0976		18.1	20.0	-9.5	20.0
Phenanthrene	Ave	1.146	1.192		10.4	10.0	4.0	50.0
Anthracene	Ave	1.170	1.214		10.4	10.0	3.8	50.0
Carbazole	Ave	1.145	1.199		10.5	10.0	4.7	50.0
Di-n-butyl phthalate	Ave	1.337	1.365		10.2	10.0	2.1	50.0
Fluoranthene	Ave	1.088	1.145		10.5	10.0	5.3	20.0
Benzidine	Qua		0.8122		10.1	10.0	1.0	50.0
Pyrene	Ave	1.309	1.339		10.2	10.0	2.3	50.0
Butyl benzyl phthalate	Ave	0.7039	0.6949		9.87	10.0	-1.3	50.0
3,3'-Dimethoxybenzidine	Qua		0.2823		11.7	10.0	17.0	50.0
Bis(2-ethylhexyl) phthalate	Ave	0.9620	0.9753		10.1	10.0	1.4	50.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.1991	0.2165		10.9	10.0	8.7	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-7093/4 Calibration Date: 07/05/2011 11:41

Instrument ID: A4AG2 Calib Start Date: 06/30/2011 13:59

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 06/30/2011 16:13

Lab File ID: 0705102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.4104	0.4503		11.0	10.0	9.7	50.0
Benzo[a]anthracene	Ave	1.123	1.131		10.1	10.0	0.7	50.0
Chrysene	Ave	1.082	1.113		10.3	10.0	2.8	50.0
Di-n-octyl phthalate	Ave	1.814	1.892		10.4	10.0	4.3	20.0
Benzo[b]fluoranthene	Ave	1.224	1.247		10.2	10.0	1.9	50.0
Benzo[k]fluoranthene	Ave	1.295	1.362		10.5	10.0	5.2	50.0
Benzo[a]pyrene	Ave	1.150	1.185		10.3	10.0	3.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.274	1.367		10.7	10.0	7.3	50.0
Dibenzo(a,h)anthracene	Ave	1.070	1.165		10.9	10.0	8.9	50.0
Benzo[g,h,i]perylene	Ave	1.021	1.110		10.9	10.0	8.8	50.0
2-Fluorophenol (Surr)	Ave	1.252	1.237		9.88	10.0	-1.2	50.0
Phenol-d5 (Surr)	Ave	1.624	1.638		10.1	10.0	0.9	50.0
Nitrobenzene-d5 (Surr)	Ave	0.3834	0.3552		9.26	10.0	-7.4	50.0
2-Fluorobiphenyl (Surr)	Ave	1.236	1.292		10.5	10.0	4.5	50.0
2,4,6-Tribromophenol (Surr)	Qua		0.1266		11.8	10.0	18.0	50.0
Terphenyl-d14 (Surr)	Ave	0.7050	0.7409		10.5	10.0	5.1	50.0

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: 0705104.D Lab Sample ID: MB 240-4415/21-A

Matrix: Water Date Extracted: 06/11/2011 08:43

Instrument ID: A4AG2 Date Analyzed: 07/05/2011 12:14

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-4415/22-A	0705105.D	07/05/2011 12:31
MSA-SW41A-060811	240-948-11	0705113.D	07/05/2011 14:44
MSA-SW41C-060811	240-948-13	0705115.D	07/05/2011 15:17
MSA-SW38A-060811	240-948-14	0705116.D	07/05/2011 15:34
MSA-SW38B-060811	240-948-15	0705117.D	07/05/2011 15:51
MSA-SW38C-060811	240-948-16	0705118.D	07/05/2011 16:08
MSA-SW43A-060811	240-948-17	0705119.D	07/05/2011 16:24
MSA-SW43B-060811	240-948-18	0705120.D	07/05/2011 16:41
MSA-SW43C-060811	240-948-19	0705121.D	07/05/2011 16:58
MSA-SW40A-060811	240-948-20	0705122.D	07/05/2011 17:14
MSA-SW42C-060811	240-948-25	0705125.D	07/05/2011 18:04
MSA-SW37A-060811	240-948-26	0705126.D	07/05/2011 18:21
MSA-SW37B-060811	240-948-27	0705127.D	07/05/2011 18:38
MSA-SW37C-060811	240-948-28	0705128.D	07/05/2011 18:54
MSA-SW40B-060811	240-948-21	0705129.D	07/05/2011 19:11
MSA-SW40C-060811	240-948-22	0705130.D	07/05/2011 19:28
MSA-SW42A-060811	240-948-23	0705131.D	07/05/2011 19:44
MSA-SW42B-060811	240-948-24	0705132.D	07/05/2011 20:01
MSA-SW41B-060811	240-948-12	0707108.D	07/07/2011 09:43
MSA-SW42C-060811	240-948-25	0707110.D	07/07/2011 10:17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-4415/21-A

Matrix: Water | Lab File ID: 0705104.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1000(mL) | Date Analyzed: 07/05/2011 12:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	1.0	U	1.0	0.80
123-91-1	1,4-Dioxane	1.0	U	1.0	0.49
88-06-2	2,4,6-Trichlorophenol	5.0	U	5.0	0.80
95-95-4	2,4,5-Trichlorophenol	5.0	U	5.0	0.30
120-83-2	2,4-Dichlorophenol	2.0	U	2.0	0.80
105-67-9	2,4-Dimethylphenol	2.0	U	2.0	0.80
51-28-5	2,4-Dinitrophenol	5.0	U	5.0	2.4
121-14-2	2,4-Dinitrotoluene	5.0	U	5.0	0.27
91-58-7	2-Chloronaphthalene	1.0	U	1.0	0.10
95-57-8	2-Chlorophenol	1.0	U	1.0	0.29
91-57-6	2-Methylnaphthalene	0.20	U	0.20	0.10
95-48-7	2-Methylphenol	1.0	U	1.0	0.80
88-74-4	2-Nitroaniline	2.0	U	2.0	0.80
88-75-5	2-Nitrophenol	2.0	U	2.0	0.28
15831-10-4	3 & 4 Methylphenol	2.0	U	2.0	0.75
91-94-1	3,3'-Dichlorobenzidine	5.0	U	5.0	0.37
99-09-2	3-Nitroaniline	2.0	U	2.0	0.28
534-52-1	4,6-Dinitro-2-methylphenol	5.0	U	5.0	2.4
101-55-3	4-Bromophenyl phenyl ether	2.0	U	2.0	0.80
59-50-7	4-Chloro-3-methylphenol	2.0	U	2.0	0.80
106-47-8	4-Chloroaniline	2.0	U	2.0	0.80
7005-72-3	4-Chlorophenyl phenyl ether	2.0	U	2.0	0.30
100-01-6	4-Nitroaniline	2.0	U	2.0	0.80
83-32-9	Acenaphthene	0.20	U	0.20	0.10
208-96-8	Acenaphthylene	0.20	U	0.20	0.10
98-86-2	Acetophenone	1.0	U	1.0	0.34
120-12-7	Anthracene	0.20	U	0.20	0.10
1912-24-9	Atrazine	1.0	U	1.0	0.34
100-52-7	Benzaldehyde	1.0	U	1.0	0.39
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.10
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.10
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.10
191-24-2	Benzo[g,h,i]perylene	0.20	U	0.20	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.10

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-4415/21-A

Matrix: Water | Lab File ID: 0705104.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1000(mL) | Date Analyzed: 07/05/2011 12:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	1.0	U	1.0	0.32
111-44-4	Bis(2-chloroethyl)ether	1.0	U	1.0	0.10
117-81-7	Bis(2-ethylhexyl) phthalate	0.974	J	2.0	0.80
85-68-7	Butyl benzyl phthalate	1.0	U	1.0	0.80
105-60-2	Caprolactam	5.0	U	5.0	0.80
86-74-8	Carbazole	1.0	U	1.0	0.28
218-01-9	Chrysene	0.20	U	0.20	0.10
84-74-2	Di-n-butyl phthalate	1.0	U	1.0	0.67
117-84-0	Di-n-octyl phthalate	1.0	U	1.0	0.80
53-70-3	Dibenzo(a,h)anthracene	0.20	U	0.20	0.10
132-64-9	Dibenzofuran	1.0	U	1.0	0.10
84-66-2	Diethyl phthalate	1.0	U	1.0	0.60
131-11-3	Dimethyl phthalate	1.0	U	1.0	0.29
206-44-0	Fluoranthene	0.20	U	0.20	0.10
86-73-7	Fluorene	0.20	U	0.20	0.10
118-74-1	Hexachlorobenzene	0.20	U	0.20	0.10
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.27
77-47-4	Hexachlorocyclopentadiene	10	U	10	0.80
67-72-1	Hexachloroethane	1.0	U	1.0	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10
78-59-1	Isophorone	1.0	U	1.0	0.27
621-64-7	N-Nitrosodi-n-propylamine	1.0	U	1.0	0.80
62-75-9	N-Nitrosodimethylamine	1.0	U	1.0	0.31
86-30-6	N-Nitrosodiphenylamine	1.0	U	1.0	0.31
91-20-3	Naphthalene	0.20	U	0.20	0.10
98-95-3	Nitrobenzene	1.0	U	1.0	0.040
87-86-5	Pentachlorophenol	5.0	U	5.0	2.4
85-01-8	Phenanthrene	0.20	U	0.20	0.10
108-95-2	Phenol	1.0	U	1.0	0.60
129-00-0	Pyrene	0.20	U	0.20	0.10
108-60-1	2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.40
606-20-2	2,6-Dinitrotoluene	5.0	U	5.0	0.80
100-02-7	4-Nitrophenol	5.0	U	5.0	2.4

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-4415/21-A

Matrix: Water | Lab File ID: 0705104.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43

Sample wt/vol: 1000(mL) | Date Analyzed: 07/05/2011 12:14

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7093 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	67		37-119
4165-62-2	Phenol-d5 (Surr)	57		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	53		27-111
367-12-4	2-Fluorophenol (Surr)	56		10-110
321-60-8	2-Fluorobiphenyl (Surr)	49		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	61		22-120

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: 0707101B.D DFTPP Injection Date: 07/07/2011

Instrument ID: A4AG2 DFTPP Injection Time: 07:46

Analysis Batch No.: 7441

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	35.6	
68	Less than 2.0% of mass 69	0.7	(1.9)1
69	Mass 69 relative abundance	36.3	
70	Less than 2.0% of mass 69	0.2	(0.6)1
127	25.0 - 75.0% of mass 198	51.9	
197	Less than 1.0% of mass 198	0.3	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.8	
275	10.0- 30.0% of mass 198	23.7	
365	Greater than 0.75% of mass 198	3.1	
441	Present, but less than mass 443	9.1	
442	40.0 - 110.0% of mass 198	63.0	
443	15.0 - 24.0% of mass 442	12.8	(20.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-7441/4	0707102.D	07/07/2011	08:03
	CCV 240-7441/5	0707103.D	07/07/2011	08:20
MSA-SW41B-060811	240-948-12	0707108.D	07/07/2011	09:43
MSA-SW42C-060811	240-948-25	0707110.D	07/07/2011	10:17

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-7441/4 Calibration Date: 07/07/2011 08:03

Instrument ID: A4AG2 Calib Start Date: 06/30/2011 13:59

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 06/30/2011 16:13

Lab File ID: 0707102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5365	0.4809		8.96	10.0	-10.4	50.0
N-Nitrosodimethylamine	Ave	0.9178	0.8165		8.90	10.0	-11.0	50.0
Pyridine	Ave	1.413	1.293		9.15	10.0	-8.5	50.0
Ethyl methacrylate	Ave	1.166	1.059		9.08	10.0	-9.2	50.0
3-Chloropropionitrile	Ave	0.7738	0.6841		8.84	10.0	-11.6	50.0
Malononitrile	Ave	1.612	1.435		8.90	10.0	-11.0	50.0
Benzaldehyde	Qua		0.6683		6.88	10.0	-31.2	50.0
Phenol	Ave	1.725	1.606		9.31	10.0	-6.9	20.0
Aniline	Ave	2.279	2.012		8.83	10.0	-11.7	50.0
Bis(2-chloroethyl)ether	Ave	1.425	1.409		9.89	10.0	-1.1	50.0
2-Chlorophenol	Ave	1.378	1.344		9.75	10.0	-2.5	50.0
1,3-Dichlorobenzene	Ave	1.446	1.428		9.87	10.0	-1.3	50.0
1,4-Dichlorobenzene	Ave	1.498	1.477		9.86	10.0	-1.4	50.0
Benzyl alcohol	Ave	0.8694	0.7586		8.73	10.0	-12.7	50.0
1,2-Dichlorobenzene	Ave	1.361	1.364		10.0	10.0	0.2	50.0
2-Methylphenol	Ave	1.319	1.340		10.2	10.0	1.6	50.0
2,2'-oxybis[1-chloropropane]	Ave	1.811	1.579		8.72	10.0	-12.8	50.0
3 & 4 Methylphenol	Ave	1.350	1.335		9.89	10.0	-1.1	50.0
N-Nitrosodi-n-propylamine	Ave	0.9824	0.9217	0.0500	9.38	10.0	-6.2	50.0
Acetophenone	Ave	1.807	1.776		9.83	10.0	-1.7	50.0
Hexachloroethane	Ave	0.5311	0.5155		9.71	10.0	-2.9	50.0
Nitrobenzene	Ave	0.3583	0.3431		9.58	10.0	-4.2	50.0
Isophorone	Ave	0.7013	0.6588		9.39	10.0	-6.1	50.0
2-Nitrophenol	Ave	0.1610	0.1853		11.5	10.0	15.1	20.0
2,4-Dimethylphenol	Ave	0.3206	0.3473		10.8	10.0	8.3	50.0
2,4-Toluene diamine	Ave	0.1656	0.1801		10.9	10.0	8.8	50.0
1,3,5-Trichlorobenzene	Ave	0.2657	0.2743		10.3	10.0	3.2	50.0
Bis(2-chloroethoxy)methane	Ave	0.3901	0.3774		9.67	10.0	-3.3	50.0
Benzoic acid	Qua		0.1410		14.1	20.0	-29.5	50.0 NA
2,4-Dichlorophenol	Ave	0.2543	0.2784		10.9	10.0	9.5	20.0
1,2,4-Trichlorobenzene	Ave	0.2665	0.2721		10.2	10.0	2.1	50.0
Naphthalene	Ave	1.039	1.053		10.1	10.0	1.4	50.0
4-Chloroaniline	Ave	0.4429	0.4373		9.87	10.0	-1.3	50.0
Hexachlorobutadiene	Ave	0.1150	0.1207		10.5	10.0	4.9	20.0
1,2,3-Trichlorobenzene	Ave	0.2486	0.2601		10.5	10.0	4.6	50.0
Caprolactam	Ave	0.1175	0.0998		8.50	10.0	-15.0	50.0
4-Chloro-3-methylphenol	Ave	0.2907	0.2989		10.3	10.0	2.8	20.0
2-Methylnaphthalene	Ave	0.5672	0.5802		10.2	10.0	2.3	50.0
1-Methylnaphthalene	Ave	0.6501	0.6544		10.1	10.0	0.7	50.0
1,2,3,5-Tetrachlorobenzene	Ave	0.3965	0.4282		10.8	10.0	8.0	50.0
Hexachlorocyclopentadiene	Qua		0.2404	0.0500	9.79	10.0	-2.1	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-7441/4 Calibration Date: 07/07/2011 08:03

Instrument ID: A4AG2 Calib Start Date: 06/30/2011 13:59

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 06/30/2011 16:13

Lab File ID: 0707102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,6-Trichlorophenol	Ave	0.2738	0.3040		11.1	10.0	11.1	20.0
2,4,5-Trichlorophenol	Ave	0.3123	0.3439		11.0	10.0	10.1	50.0
1,1'-Biphenyl	Ave	1.389	1.484		10.7	10.0	6.8	50.0
1,2,3,4 -Tetrachlorobenzene	Ave	0.3721	0.4055		10.9	10.0	9.0	50.0
2-Chloronaphthalene	Ave	1.082	1.113		10.3	10.0	2.8	50.0
2-Nitroaniline	Ave	0.3514	0.3403		9.68	10.0	-3.2	50.0
Dimethyl phthalate	Ave	1.266	1.269		10.0	10.0	0.3	50.0
2,6-Dinitrotoluene	Ave	0.2616	0.2819		10.8	10.0	7.8	50.0
1,2-Dinitrobenzene	Ave	0.1328	0.1458		11.0	10.0	9.8	50.0
Acenaphthylene	Ave	1.876	1.967		10.5	10.0	4.8	50.0
3-Nitroaniline	Ave	0.3490	0.3620		10.4	10.0	3.7	50.0
Acenaphthene	Ave	1.113	1.152		10.3	10.0	3.5	20.0
2,4-Dinitrophenol	Qua		0.1583	0.0500	21.7	20.0	8.5	50.0
4-Nitrophenol	Qua		0.1279	0.0500	9.66	10.0	-3.4	50.0
2,4-Dinitrotoluene	Ave	0.3481	0.3801		10.9	10.0	9.2	50.0
Dibenzofuran	Ave	1.555	1.590		10.2	10.0	2.2	50.0
2,3,5,6-Tetrachlorophenol	Qua		0.2061		10.1	10.0	1.0	50.0
Diethyl phthalate	Ave	1.289	1.273		9.88	10.0	-1.2	50.0
4-Chlorophenyl phenyl ether	Ave	0.5086	0.5284		10.4	10.0	3.9	50.0
Fluorene	Ave	1.277	1.308		10.2	10.0	2.4	50.0
4-Nitroaniline	Ave	0.3624	0.3736		10.3	10.0	3.1	50.0
4,6-Dinitro-2-methylphenol	Qua		0.1107		10.3	10.0	3.0	50.0
N-Nitrosodiphenylamine	Ave	0.6253	0.6169		9.86	10.0	-1.4	20.0
1,2-Diphenylhydrazine	Ave	0.9330	0.8590		9.21	10.0	-7.9	50.0
Azobenzene	Ave	0.9330	0.8590		9.21	10.0	-7.9	50.0
4-Bromophenyl phenyl ether	Ave	0.1675	0.1722		10.3	10.0	2.8	50.0
Hexachlorobenzene	Ave	0.1671	0.1761		10.5	10.0	5.4	50.0
Atrazine	Ave	0.1840	0.1810		9.84	10.0	-1.6	50.0
Pentachlorophenol	Qua		0.0867		16.3	20.0	-18.5	20.0
Phenanthrene	Ave	1.146	1.175		10.3	10.0	2.5	50.0
Anthracene	Ave	1.170	1.190		10.2	10.0	1.7	50.0
Carbazole	Ave	1.145	1.173		10.2	10.0	2.4	50.0
Di-n-butyl phthalate	Ave	1.337	1.453		10.9	10.0	8.7	50.0
Fluoranthene	Ave	1.088	1.114		10.2	10.0	2.4	20.0
Benzidine	Qua		0.7485		9.31	10.0	-6.9	50.0
Pyrene	Ave	1.309	1.309		10.0	10.0	0.0	50.0
Butyl benzyl phthalate	Ave	0.7039	0.6707		9.53	10.0	-4.7	50.0
3,3'-Dimethoxybenzidine	Qua		0.2444		10.3	10.0	3.0	50.0
Bis(2-ethylhexyl) phthalate	Ave	0.9620	0.9579		9.96	10.0	-0.4	50.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.1991	0.2132		10.7	10.0	7.1	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-7441/4 Calibration Date: 07/07/2011 08:03

Instrument ID: A4AG2 Calib Start Date: 06/30/2011 13:59

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 06/30/2011 16:13

Lab File ID: 0707102.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.4104	0.4359		10.6	10.0	6.2	50.0
Benzo[a]anthracene	Ave	1.123	1.119		9.96	10.0	-0.4	50.0
Chrysene	Ave	1.082	1.068		9.86	10.0	-1.4	50.0
Di-n-octyl phthalate	Ave	1.814	1.843		10.2	10.0	1.6	20.0
Benzo[b]fluoranthene	Ave	1.224	1.289		10.5	10.0	5.3	50.0
Benzo[k]fluoranthene	Ave	1.295	1.264		9.76	10.0	-2.4	50.0
Benzo[a]pyrene	Ave	1.150	1.157		10.1	10.0	0.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.274	1.320		10.4	10.0	3.6	50.0
Dibenzo(a,h)anthracene	Ave	1.070	1.131		10.6	10.0	5.7	50.0
Benzo[g,h,i]perylene	Ave	1.021	1.075		10.5	10.0	5.3	50.0
2-Fluorophenol (Surr)	Ave	1.252	1.193		9.53	10.0	-4.7	50.0
Phenol-d5 (Surr)	Ave	1.624	1.564		9.63	10.0	-3.7	50.0
Nitrobenzene-d5 (Surr)	Ave	0.3834	0.3434		8.96	10.0	-10.4	50.0
2-Fluorobiphenyl (Surr)	Ave	1.236	1.289		10.4	10.0	4.3	50.0
2,4,6-Tribromophenol (Surr)	Qua		0.1149		10.8	10.0	8.0	50.0
Terphenyl-d14 (Surr)	Ave	0.7050	0.7136		10.1	10.0	1.2	50.0

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: 9DF0705.D DFTPP Injection Date: 07/05/2011

Instrument ID: A4HP9 DFTPP Injection Time: 14:49

Analysis Batch No.: 7247

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	46.8	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	74.1	
70	Less than 2.0% of mass 69	0.4	(0.5)1
127	25.0 - 75.0% of mass 198	57.6	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	6.9	
275	10.0- 30.0% of mass 198	24.0	
365	Greater than 0.75% of mass 198	3.2	
441	Present, but less than mass 443	11.6	
442	40.0 - 110.0% of mass 198	69.2	
443	15.0 - 24.0% of mass 442	13.1	(18.9)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD6 240-7247/10	9SMH0705.D	07/05/2011	15:06
	STD5 240-7247/2	9SMM0705.D	07/05/2011	15:25
	STD4 240-7247/3	9SM0705.D	07/05/2011	15:44
	STD3 240-7247/4	9SML0705.D	07/05/2011	16:03
	STD1 240-7247/6	9SLL0705.D	07/05/2011	16:42
	STD2 240-7247/5	9SL0705.D	07/05/2011	17:01
	STD7 240-7247/9	9SH0705.D	07/05/2011	17:20
	STD8 240-7247/8	9SHH0705.D	07/05/2011	17:40
	STD9 240-7247/7	9HHH0705.D	07/05/2011	17:59
	ICV 240-7247/11	9TCLICV.D	07/05/2011	18:18

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 7247

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2011 15:06 Calibration End Date: 07/05/2011 17:59 Calibration ID: 2119

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-7247/6	9SLL0705.D
Level 2	STD2 240-7247/5	9SL0705.D
Level 3	STD3 240-7247/4	9SML0705.D
Level 4	STD4 240-7247/3	9SM0705.D
Level 5	STD5 240-7247/2	9SMM0705.D
Level 6	STD6 240-7247/10	9SMH0705.D
Level 7	STD7 240-7247/9	9SH0705.D
Level 8	STD8 240-7247/8	9SHH0705.D
Level 9	STD9 240-7247/7	9HHH0705.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dioxane	0.8152	0.8787 0.7861	0.9001 0.7517	0.9109 0.8098	0.8337	Ave		0.8358				6.7		15.0			
N-Nitrosodimethylamine	1.5473	1.5922 1.5028	1.6609 1.4580	1.6339 1.5294	1.5204	Ave		1.5556				4.4		15.0			
Pyridine	2.4082	2.1994 2.4058	2.4840 2.2699	2.5407 2.4590	2.3771	Ave		2.3930				4.7		15.0			
Ethyl methacrylate	2.1461	2.2792 2.0715	2.3376 2.0331	2.3803 2.1928	2.1790	Ave		2.2024				5.6		15.0			
3-Chloropropionitrile	0.8849	0.8810 0.8660	0.9507 0.8328	0.9557 0.9227	0.8878	Ave		0.8977				4.7		15.0			
Malononitrile	2.6380	2.6937 2.5342	2.8029 2.3702	2.7718 2.4570	2.5860	Ave		2.6067				5.8		15.0			
Benzaldehyde	1.6121	2.0788 1.1960	2.0880 +++++	2.0377	1.8687	Qua	-0.264	2.3704	-0.077						0.9990		0.9900
Phenol	2.5224	2.4682 2.5061	2.7011 2.3872	2.7274 2.5703	2.5158	Ave		2.5498				4.5		15.0			
Aniline	3.1668	3.0796 3.2136	3.2924 3.0866	3.3281 3.2972	3.1780	Ave		3.2053				3.0		15.0			
Bis(2-chloroethyl)ether	1.9611	2.1103 1.9685	2.1525 1.8520	2.0941 2.0824	1.9783	Ave		2.0249				5.0		15.0			
2-Chlorophenol	1.4297	1.4116 1.4101	1.5310 1.3473	1.5274 1.4554	1.4397	Ave		1.4440				4.3		15.0			
1,3-Dichlorobenzene	1.3848	1.4468 1.3638	1.4858 1.2996	1.4606 1.4063	1.4182	Ave		1.4082				4.2		15.0			
1,4-Dichlorobenzene	1.4269	1.5004 1.4190	1.5636 1.3571	1.5241 1.4727	1.4475	Ave		1.4639				4.5		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 7247

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2011 15:06 Calibration End Date: 07/05/2011 17:59 Calibration ID: 2119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzyl alcohol	1.1320	1.0935 1.1523	1.2034 1.1257	1.2041 1.1839	1.1477	Ave		1.1553				3.4		15.0			
1,2-Dichlorobenzene	1.3013	1.3342 1.2886	1.3777 1.2352	1.3899 1.3511	1.3208	Ave		1.3249				3.8		15.0			
2-Methylphenol	1.5965	1.6634 1.6147	1.6668 1.5013	1.6960 1.7028	1.6127	Ave		1.6318				4.0		15.0			
2,2'-oxybis[1-chloropropane]	1.7793	1.8963 1.8060	1.9098 1.7055	1.9252 1.8372	1.8320	Ave		1.8364				4.0		15.0			
Benzoic acid	0.3022	+++++ 0.3108	0.1298 0.3081	0.1905 0.3380	0.2495	Qua	-0.329	0.2821	0.0012						0.9980		0.9900
3 & 4 Methylphenol	1.7079	1.6622 1.7036	1.8128 1.6165	1.8079 1.7336	1.7255	Ave		1.7212				3.9		15.0			
N-Nitrosodi-n-propylamine	1.7190	1.7848 1.7360	1.8355 1.6400	1.8904 1.7628	1.7816	Ave		1.7687			0.0500	4.3		15.0			
Acetophenone	2.3942	2.4262 2.3666	2.5234 2.2686	2.4911 2.4659	2.4062	Ave		2.4178				3.3		15.0			
Hexachloroethane	0.6505	0.6594 0.6410	0.6998 0.6248	0.6839 0.6722	0.6602	Ave		0.6615				3.6		15.0			
Nitrobenzene	0.6409	0.6701 0.6485	0.6877 0.6474	0.6909 0.6796	0.6563	Ave		0.6652				2.9		15.0			
Isophorone	1.1452	1.1616 1.1502	1.2144 1.1653	1.2259 1.2189	1.1593	Ave		1.1801				2.8		15.0			
2-Nitrophenol	0.1959	0.1672 0.1928	0.1986 0.1923	0.2050 0.1997	0.1983	Ave		0.1937				5.9		15.0			
2,4-Dimethylphenol	0.4730	0.4789 0.4712	0.5001 0.4702	0.5168 0.4951	0.4829	Ave		0.4860				3.4		15.0			
1,3,5-Trichlorobenzene	0.2840	0.3168 0.2849	0.3030 0.2913	0.3104 0.3086	0.2909	Ave		0.2987				4.2		15.0			
Bis(2-chloroethoxy)methane	0.5699	0.6011 0.5747	0.6158 0.5807	0.6233 0.5923	0.5942	Ave		0.5940				3.2		15.0			
2,4-Dichlorophenol	0.2764	0.2516 0.2709	0.2686 0.2714	0.2897 0.2773	0.2777	Ave		0.2730				4.0		15.0			
1,2,4-Trichlorobenzene	0.2904	0.3235 0.2860	0.3007 0.2899	0.3140 0.3015	0.2917	Ave		0.2997				4.4		15.0			
Naphthalene	1.3854 1.0858	1.1352 1.0882	1.1433 1.0868	1.1690 1.1357	1.1061	Ave		1.1484				8.2		15.0			
4-Chloroaniline	0.4640	0.4340 0.4659	0.4938 0.4612	0.4968 0.4865	0.4891	Ave		0.4739				4.5		15.0			
Hexachlorobutadiene	0.1685	0.1778 0.1649	0.1684 0.1716	0.1742 0.1796	0.1668	Ave		0.1715				3.1		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 7247

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2011 15:06 Calibration End Date: 07/05/2011 17:59 Calibration ID: 2119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2,3-Trichlorobenzene	0.2690	0.2692 0.2704	0.2721 0.2705	0.2935 0.2811	0.2725	Ave		0.2748				3.1		15.0			
1,1'-Biphenyl	+++++ 1.4426	1.5715 1.4684	1.5657 1.5052	1.5995 1.6347	1.4510	Ave		1.5298				4.8		15.0			
2-Chloronaphthalene	+++++ 1.0679	1.1493 1.0636	1.1092 1.0834	1.1496 1.1139	1.0562	Ave		1.0991				3.4		15.0			
Caprolactam	0.1483	0.1061 0.1518	0.1436 0.1498	0.1516 0.1509	0.1519	Ave		0.1443				11.0		15.0			
4-Chloro-3-methylphenol	0.4113	0.3613 0.4103	0.4198 0.4162	0.4406 0.4303	0.4213	Ave		0.4139				5.7		15.0			
2-Methylnaphthalene	0.6500 0.5668	0.5801 0.5614	0.5698 0.5645	0.6032 0.5830	0.5670	Ave		0.5829				4.9		15.0			
2,4-Dinitrophenol	0.2444	+++++ 0.2456	0.1388 0.2502	0.1955 0.2644	0.2195	Qua	-0.150	0.2297	0.0007		0.0500				1.0000		0.9900
4-Nitrophenol	0.3071	+++++ 0.3080	0.2595 0.3045	0.2873 0.3091	0.3063	Ave		0.2974			0.0500	6.2		15.0			
1-Methylnaphthalene	0.7794 0.6403	0.6652 0.6424	0.6729 0.6382	0.6883 0.6677	0.6500	Ave		0.6716				6.5		15.0			
1,2,3,5-Tetrachlorobenzene	0.4891	0.5010 0.4917	0.5110 0.5113	0.5415 0.5572	0.4751	Ave		0.5098				5.4		15.0			
Hexachlorocyclopentadiene	0.3551	0.2904 0.3648	0.3301 0.3795	0.3497 0.4152	0.3484	Ave		0.3542			0.0500	10.0		15.0			
2,4,6-Trichlorophenol	0.3508	0.3149 0.3545	0.3429 0.3564	0.3694 0.3640	0.3642	Ave		0.3522				4.9		15.0			
2,4,5-Trichlorophenol	0.3927	0.3541 0.3728	0.3983 0.3834	0.3972 0.4038	0.3730	Ave		0.3844				4.4		15.0			
Dibenzofuran	+++++ 1.6119	1.6632 1.6408	1.6957 1.6544	1.7819 1.7461	1.6071	Ave		1.6751				3.7		15.0			
2,4-Toluene diamine	0.2479	0.3182	0.3639	0.3710	0.2775	Lin	0.1481	0.2373							0.9910		0.9900
1,2,3,4 -Tetrachlorobenzene	0.4568	0.4898 0.4691	0.4678 0.4867	0.4938 0.5256	0.4632	Ave		0.4816				4.6		15.0			
4,6-Dinitro-2-methylphenol	0.1508	+++++ 0.1497	0.1099 0.1550	0.1327 0.1626	0.1417	Ave		0.1432				12.0		15.0			
2-Nitroaniline	0.5956	0.5537 0.6126	0.6177 0.6072	0.6311 0.6188	0.5983	Ave		0.6044				3.9		15.0			
Dimethyl phthalate	1.2741	1.2752 1.2954	1.3110 1.2869	1.3352 1.3533	1.2564	Ave		1.2984				2.5		15.0			
2,6-Dinitrotoluene	0.2901	0.2433 0.2883	0.2663 0.2881	0.2941 0.3006	0.2797	Ave		0.2813				6.6		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 7247

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2011 15:06 Calibration End Date: 07/05/2011 17:59 Calibration ID: 2119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,2-Dinitrobenzene	0.1540	0.1363 0.1573	0.1498 0.1596	0.1579 0.1624	0.1496	Ave		0.1534				5.4		15.0			
Acenaphthylene	2.2517 1.9007	1.9247 1.9142	1.9327 1.9320	2.0113 2.0240	1.8816	Ave		1.9748				5.8		15.0			
3-Nitroaniline	0.3554	0.3314 0.3611	0.3499 0.3585	0.3661 0.3679	0.3538	Ave		0.3555				3.2		15.0			
Acenaphthene	1.4414 1.1331	1.1856 1.1359	1.2333 1.1660	1.2455 1.2247	1.1430	Ave		1.2121				7.9		15.0			
2,4-Dinitrotoluene	0.3844	0.3456 0.3961	0.3784 0.3963	0.4067 0.4094	0.3874	Ave		0.3880				5.2		15.0			
2,3,5,6-Tetrachlorophenol	0.3118	0.2740 0.3161	0.2777 0.3180	0.3113 0.3338	0.3118	Ave		0.3068				6.7		15.0			
Diethyl phthalate	1.3969	1.3266 1.4209	1.3868 1.4195	1.4720 1.4835	1.3758	Ave		1.4103				3.6		15.0			
4-Chlorophenyl phenyl ether	0.6079	0.6323 0.6135	0.6269 0.6195	0.6381 0.6597	0.6139	Ave		0.6265				2.7		15.0			
4-Nitroaniline	0.3726	0.3493 0.3786	0.4036 0.3755	0.4093 0.3927	0.3682	Ave		0.3812				5.2		15.0			
Fluorene	1.4484 1.2213	1.3005 1.2526	1.3156 1.2679	1.2931 1.3357	1.2328	Ave		1.2964				5.3		15.0			
N-Nitrosodiphenylamine	0.5742	0.5966 0.5814	0.6233 0.5882	0.5913 0.6205	0.5681	Ave		0.5930				3.4		15.0			
1,2-Diphenylhydrazine	1.4969	1.4976 1.5024	1.5336 1.4773	1.5657 1.4179	1.4616	Ave		1.4950				3.0		15.0			
Azobenzene	1.4969	1.4976 1.5039	1.5414 1.4784	1.5621 1.4179	1.4619	Ave		1.4950				3.0		15.0			
4-Bromophenyl phenyl ether	0.1944	0.1741 0.1944	0.1899 0.1917	0.1979 0.2066	0.1885	Ave		0.1922				4.8		15.0			
Hexachlorobenzene	0.2370 0.1858	0.1924 0.1842	0.1888 0.1857	0.1991 0.2025	0.1787	Ave		0.1949				8.9		15.0			
Atrazine	0.1997	0.1812 0.1916	0.2087 0.1876	0.2119 0.1927	0.2020	Ave		0.1969				5.3		15.0			
Pentachlorophenol	0.1472	0.0852 0.1459	0.1135 0.1502	0.1276 0.1597	0.1418	Qua	-0.018	0.1329	0.0005						0.9990		0.9900
Phenanthrene	1.3541 1.0614	1.1646 1.0765	1.1284 1.0841	1.1176 1.1484	1.0495	Ave		1.1316				8.2		15.0			
Anthracene	1.1893 1.0903	1.1020 1.0948	1.1304 1.1138	1.1072 1.1621	1.0686	Ave		1.1176				3.4		15.0			
Carbazole	1.0814	1.0629 1.0872	1.1385 1.0923	1.1211 1.1523	1.0679	Ave		1.1004				3.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 7247

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2011 15:06 Calibration End Date: 07/05/2011 17:59 Calibration ID: 2119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Di-n-butyl phthalate	1.3940	1.3316 1.4179	1.3726 1.4219	1.4098 1.3845	1.3885	Ave		1.3901				2.1		15.0			
3,3'-Dimethoxybenzidine	0.2713	+++++ 0.2642	0.2694 0.2698	0.2953 0.2851	0.2979	Ave		0.2790				4.9		15.0			
Fluoranthene	1.3295 1.1609	1.1192 1.1606	1.1681 1.1943	1.1885 1.2346	1.1264	Ave		1.1869				5.4		15.0			
Benzidine	0.7146	0.5467 0.7016	0.6460 0.7166	0.7179 0.7369	0.6924	Ave		0.6841				9.0		15.0			
Pyrene	1.4711 1.2394	1.2555 1.2448	1.2590 1.2474	1.2508 1.3229	1.2133	Ave		1.2783				6.1		15.0			
Butyl benzyl phthalate	0.6092	0.5472 0.6062	0.5853 0.6032	0.7099 0.6236	0.6201	Ave		0.6131				7.5		15.0			
Bis(2-ethylhexyl) phthalate	0.8445	0.7530 0.8441	0.8284 0.8407	0.8650 0.8840	0.8546	Ave		0.8393				4.6		15.0			
4,4'-Methylene bis(2-chloroaniline)	0.2234	0.1993 0.2259	0.2111 0.2334	0.2317 0.2518	0.2181	Ave		0.2243				7.0		15.0			
3,3'-Dichlorobenzidine	0.4219	0.3808 0.4322	0.4209 0.4457	0.4428 0.4747	0.4180	Ave		0.4296				6.3		15.0			
Benzo[a]anthracene	1.5048 1.1952	1.1362 1.2057	1.1887 1.1746	1.2102 1.3058	1.1357	Ave		1.2285				9.4		15.0			
Chrysene	1.3639 1.0852	1.1439 1.0886	1.1195 1.1696	1.1282 1.1894	1.1002	Ave		1.1543				7.5		15.0			
Di-n-octyl phthalate	1.6733	1.2680 1.7151	1.5125 1.7190	1.6417 1.8106	1.6591	Ave		1.6249				10.0		15.0			
Benzo[b]fluoranthene	1.1758 1.3671	1.1336 1.3925	1.3757 1.3859	1.3609 1.5507	1.3870	Ave		1.3477				9.2		15.0			
Benzo[k]fluoranthene	1.6463 1.2625	1.2668 1.2771	1.3033 1.2811	1.3488 1.2704	1.2000	Ave		1.3174				9.8		15.0			
Benzo[a]pyrene	1.1888 1.1860	1.0885 1.1998	1.1422 1.1956	1.2042 1.2493	1.1509	Ave		1.1784				3.9		15.0			
Indeno[1,2,3-cd]pyrene	1.1831 1.2670	1.1827 1.3005	1.1914 1.2858	1.2873 1.3579	1.2740	Ave		1.2589				4.8		15.0			
Dibenzo(a,h)anthracene	1.0061 1.0494	0.8990 1.0805	1.0032 1.0734	1.0638 1.1237	1.0242	Ave		1.0359				6.2		15.0			
Benzo[g,h,i]perylene	1.0249 1.0477	0.9471 1.0618	1.0131 1.0468	1.0924 1.0945	1.0498	Ave		1.0420				4.3		15.0			
2-Fluorophenol (Surr)	1.5576	1.5117 1.5085	1.6823 1.4793	1.6534 1.6004	1.5908	Ave		1.5730				4.6		15.0			
Phenol-d5 (Surr)	2.1876	2.1877 2.1901	2.3405 2.0839	2.3967 2.2324	2.2194	Ave		2.2298				4.4		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 7247

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2011 15:06 Calibration End Date: 07/05/2011 17:59 Calibration ID: 2119

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 CR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Nitrobenzene-d5 (Surr)	0.7415 0.6513	0.6096 0.5938	0.6882 0.5970	0.7082 0.6228	0.6579	Ave		0.6523				8.0		15.0			
2-Fluorobiphenyl (Surr)	1.6149 1.2767	1.3545 1.2912	1.3455 1.3009	1.3654 1.3683	1.2812	Ave		1.3554				7.7		15.0			
2,4,6-Tribromophenol (Surr)	 0.1463	0.1296 0.1564	0.1379 0.1563	0.1507 0.1625	0.1402	Ave		0.1475				7.5		15.0			
Terphenyl-d14 (Surr)	0.8206 0.7264	0.7177 0.7320	0.7158 0.7424	0.7373 0.8058	0.7198	Ave		0.7464				5.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: 9DF0706.D DFTPP Injection Date: 07/06/2011

Instrument ID: A4HP9 DFTPP Injection Time: 16:27

Analysis Batch No.: 7455

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	40.5	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	67.2	
70	Less than 2.0% of mass 69	0.4	(0.6)1
127	25.0 - 75.0% of mass 198	55.1	
197	Less than 1.0% of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 to 9.0% of mass 198	7.0	
275	10.0- 30.0% of mass 198	25.4	
365	Greater than 0.75% of mass 198	3.2	
441	Present, but less than mass 443	13.0	
442	40.0 - 110.0% of mass 198	77.8	
443	15.0 - 24.0% of mass 442	14.6	(18.8)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCV 240-7455/2	9SMH0706.D	07/06/2011	16:43
	CCV 240-7455/3	9AMH0706.D	07/06/2011	17:06
	MB 240-6848/20-A	MB6048.D	07/06/2011	17:26
	LCS 240-6848/21-A	LCS6048.D	07/06/2011	17:45
MSA-SW39A-060811 RE	240-948-2 RE	948G2A.D	07/06/2011	21:38
MSA-SW39B-060811 RE	240-948-3 RE	948H3A.D	07/06/2011	21:57
MSA-SW39C-060811 RE	240-948-4 RE	948G4A.D	07/06/2011	22:16
MSA-SW45A-060811 RE	240-948-5 RE	948H5A.D	07/06/2011	22:35
MSA-SW45B-060811 RE	240-948-6 RE	948H6A.D	07/06/2011	22:55
MSA-SW45C-060811 RE	240-948-7 RE	948H7A.D	07/06/2011	23:14
MSA-SW44A-060811 RE	240-948-8 RE	948G8A.D	07/06/2011	23:33
MSA-SW44B-060811 RE	240-948-9 RE	948H9A.D	07/06/2011	23:52
MSA-SW44C-060811 RE	240-948-10 RE	948G10A.D	07/07/2011	00:12

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-7455/2 Calibration Date: 07/06/2011 16:43

Instrument ID: A4HP9 Calib Start Date: 07/05/2011 15:06

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/05/2011 17:59

Lab File ID: 9SMH0706.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.8358	0.7170		8.58	10.0	-14.2	50.0
N-Nitrosodimethylamine	Ave	1.556	1.436		9.23	10.0	-7.7	50.0
Pyridine	Ave	2.393	2.329		9.73	10.0	-2.7	50.0
Ethyl methacrylate	Ave	2.202	1.921		8.72	10.0	-12.8	50.0
3-Chloropropionitrile	Ave	0.8977	0.8348		9.30	10.0	-7.0	50.0
Malononitrile	Ave	2.607	2.532		9.71	10.0	-2.9	50.0
Benzaldehyde	Qua		1.622		10.6	10.0	6.0	50.0
Phenol	Ave	2.550	2.534		9.94	10.0	-0.6	20.0
Aniline	Ave	3.205	3.226		10.1	10.0	0.7	50.0
Bis(2-chloroethyl)ether	Ave	2.025	1.988		9.82	10.0	-1.8	50.0
2-Chlorophenol	Ave	1.444	1.456		10.1	10.0	0.9	50.0
1,3-Dichlorobenzene	Ave	1.408	1.375		9.76	10.0	-2.4	50.0
1,4-Dichlorobenzene	Ave	1.464	1.415		9.67	10.0	-3.3	50.0
Benzyl alcohol	Ave	1.155	1.185		10.3	10.0	2.6	50.0
1,2-Dichlorobenzene	Ave	1.325	1.293		9.76	10.0	-2.4	50.0
2-Methylphenol	Ave	1.632	1.641		10.1	10.0	0.5	50.0
2,2'-oxybis[1-chloropropane]	Ave	1.836	1.795		9.78	10.0	-2.2	50.0
3 & 4 Methylphenol	Ave	1.721	1.749		10.2	10.0	1.6	50.0
N-Nitrosodi-n-propylamine	Ave	1.769	1.789	0.0500	10.1	10.0	1.2	50.0
Acetophenone	Ave	2.418	2.451		10.1	10.0	1.4	50.0
Hexachloroethane	Ave	0.6615	0.6463		9.77	10.0	-2.3	50.0
Nitrobenzene	Ave	0.6652	0.6319		9.50	10.0	-5.0	50.0
Isophorone	Ave	1.180	1.146		9.71	10.0	-2.9	50.0
2-Nitrophenol	Ave	0.1937	0.1978		10.2	10.0	2.1	20.0
2,4-Dimethylphenol	Ave	0.4860	0.4644		9.56	10.0	-4.4	50.0
1,3,5-Trichlorobenzene	Ave	0.2987	0.2819		9.44	10.0	-5.6	50.0
Bis(2-chloroethoxy)methane	Ave	0.5940	0.5765		9.71	10.0	-2.9	50.0
Benzoic acid	Qua		0.3148		21.6	20.0	8.0	50.0
2,4-Dichlorophenol	Ave	0.2730	0.2750		10.1	10.0	0.7	20.0
1,2,4-Trichlorobenzene	Ave	0.2997	0.2878		9.60	10.0	-4.0	50.0
Naphthalene	Ave	1.148	1.069		9.31	10.0	-6.9	50.0
4-Chloroaniline	Ave	0.4739	0.4733		9.99	10.0	-0.1	50.0
Hexachlorobutadiene	Ave	0.1715	0.1641		9.57	10.0	-4.3	20.0
1,2,3-Trichlorobenzene	Ave	0.2748	0.2704		9.84	10.0	-1.6	50.0
Caprolactam	Ave	0.1443	0.1540		10.7	10.0	6.8	50.0
4-Chloro-3-methylphenol	Ave	0.4139	0.4055		9.80	10.0	-2.0	20.0
2-Methylnaphthalene	Ave	0.5829	0.5643		9.68	10.0	-3.2	50.0
1-Methylnaphthalene	Ave	0.6716	0.6401		9.53	10.0	-4.7	50.0
1,2,3,5-Tetrachlorobenzene	Ave	0.5098	0.4787		9.39	10.0	-6.1	50.0
Hexachlorocyclopentadiene	Ave	0.3542	0.3558	0.0500	10.0	10.0	0.5	50.0
2,4,6-Trichlorophenol	Ave	0.3522	0.3476		9.87	10.0	-1.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-7455/2 Calibration Date: 07/06/2011 16:43

Instrument ID: A4HP9 Calib Start Date: 07/05/2011 15:06

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/05/2011 17:59

Lab File ID: 9SMH0706.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2,4,5-Trichlorophenol	Ave	0.3844	0.3750		9.76	10.0	-2.4	50.0
2,4-Toluene diamine	Lin		0.1529		5.82	10.0	-41.8	50.0
1,1'-Biphenyl	Ave	1.530	1.426		9.32	10.0	-6.8	50.0
1,2,3,4 -Tetrachlorobenzene	Ave	0.4816	0.4568		9.48	10.0	-5.2	50.0
2-Chloronaphthalene	Ave	1.099	1.047		9.53	10.0	-4.7	50.0
2-Nitroaniline	Ave	0.6044	0.5646		9.34	10.0	-6.6	50.0
Dimethyl phthalate	Ave	1.298	1.274		9.81	10.0	-1.9	50.0
2,6-Dinitrotoluene	Ave	0.2813	0.2872		10.2	10.0	2.1	50.0
1,2-Dinitrobenzene	Ave	0.1534	0.1571		10.2	10.0	2.4	50.0
Acenaphthylene	Ave	1.975	1.867		9.45	10.0	-5.5	50.0
3-Nitroaniline	Ave	0.3555	0.3536		9.95	10.0	-0.5	50.0
2,4-Dinitrophenol	Qua		0.2459	0.0500	20.7	20.0	3.5	50.0
Acenaphthene	Ave	1.212	1.112		9.17	10.0	-8.3	20.0
4-Nitrophenol	Ave	0.2974	0.2729	0.0500	9.18	10.0	-8.2	50.0
2,4-Dinitrotoluene	Ave	0.3880	0.3885		10.0	10.0	0.1	50.0
Dibenzofuran	Ave	1.675	1.603		9.57	10.0	-4.3	50.0
2,3,5,6-Tetrachlorophenol	Ave	0.3068	0.3110		10.1	10.0	1.4	50.0
Diethyl phthalate	Ave	1.410	1.386		9.83	10.0	-1.7	50.0
4-Chlorophenyl phenyl ether	Ave	0.6265	0.6089		9.72	10.0	-2.8	50.0
4-Nitroaniline	Ave	0.3812	0.3717		9.75	10.0	-2.5	50.0
Fluorene	Ave	1.296	1.221		9.42	10.0	-5.8	50.0
4,6-Dinitro-2-methylphenol	Ave	0.1432	0.1511		10.6	10.0	5.5	50.0
N-Nitrosodiphenylamine	Ave	0.5930	0.5631		9.50	10.0	-5.0	20.0
1,2-Diphenylhydrazine	Ave	1.495	1.460		9.76	10.0	-2.4	50.0
Azobenzene.	Ave	1.495	1.460		9.76	10.0	-2.4	50.0
4-Bromophenyl phenyl ether	Ave	0.1922	0.1917		9.98	10.0	-0.2	50.0
Hexachlorobenzene	Ave	0.1949	0.1843		9.46	10.0	-5.4	50.0
Atrazine	Ave	0.1969	0.1913		9.72	10.0	-2.8	50.0
Pentachlorophenol	Qua		0.1524		21.3	20.0	6.5	20.0
Phenanthrene	Ave	1.132	1.069		9.45	10.0	-5.5	50.0
Anthracene	Ave	1.118	1.096		9.81	10.0	-1.9	50.0
Carbazole	Ave	1.100	1.083		9.84	10.0	-1.6	50.0
Di-n-butyl phthalate	Ave	1.390	1.379		9.92	10.0	-0.8	50.0
Fluoranthene	Ave	1.187	1.159		9.76	10.0	-2.4	20.0
Benzidine	Ave	0.6841	0.6903		10.1	10.0	0.9	50.0
Pyrene	Ave	1.278	1.258		9.84	10.0	-1.6	50.0
Butyl benzyl phthalate	Ave	0.6131	0.6111		9.97	10.0	-0.3	50.0
3,3'-Dimethoxybenzidine	Ave	0.2790	0.2708		9.70	10.0	-3.0	50.0
Bis(2-ethylhexyl) phthalate	Ave	0.8393	0.8525		10.2	10.0	1.6	50.0
4,4'-Methylene bis(2-chloroaniline)	Ave	0.2243	0.2268		10.1	10.0	1.1	50.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab Sample ID: CCV 240-7455/2 Calibration Date: 07/06/2011 16:43

Instrument ID: A4HP9 Calib Start Date: 07/05/2011 15:06

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 07/05/2011 17:59

Lab File ID: 9SMH0706.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3,3'-Dichlorobenzidine	Ave	0.4296	0.4290		9.99	10.0	-0.1	50.0
Benzo[a]anthracene	Ave	1.229	1.137		9.25	10.0	-7.5	50.0
Chrysene	Ave	1.154	1.099		9.52	10.0	-4.8	50.0
Di-n-octyl phthalate	Ave	1.625	1.747		10.8	10.0	7.5	20.0
Benzo[b]fluoranthene	Ave	1.348	1.314		9.75	10.0	-2.5	50.0
Benzo[k]fluoranthene	Ave	1.317	1.257		9.54	10.0	-4.6	50.0
Benzo[a]pyrene	Ave	1.178	1.181		10.0	10.0	0.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.259	1.285		10.2	10.0	2.1	50.0
Dibenzo(a,h)anthracene	Ave	1.036	1.065		10.3	10.0	2.8	50.0
Benzo[g,h,i]perylene	Ave	1.042	1.066		10.2	10.0	2.3	50.0
2-Fluorophenol (Surr)	Ave	1.573	1.556		9.89	10.0	-1.1	50.0
Phenol-d5 (Surr)	Ave	2.230	2.231		10.0	10.0	0.0	50.0
Nitrobenzene-d5 (Surr)	Ave	0.6523	0.5899		9.04	10.0	-9.6	50.0
2-Fluorobiphenyl (Surr)	Ave	1.355	1.252		9.24	10.0	-7.6	50.0
2,4,6-Tribromophenol (Surr)	Ave	0.1475	0.1500		10.2	10.0	1.7	50.0
Terphenyl-d14 (Surr)	Ave	0.7464	0.7269		9.74	10.0	-2.6	50.0

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Lab File ID: MB6048.D Lab Sample ID: MB 240-6848/20-A

Matrix: Water Date Extracted: 07/01/2011 08:52

Instrument ID: A4HP9 Date Analyzed: 07/06/2011 17:26

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-6848/21-A	LCS6048.D	07/06/2011 17:45
MSA-SW39A-060811 RE	240-948-2 RE	948G2A.D	07/06/2011 21:38
MSA-SW39B-060811 RE	240-948-3 RE	948H3A.D	07/06/2011 21:57
MSA-SW39C-060811 RE	240-948-4 RE	948G4A.D	07/06/2011 22:16
MSA-SW45A-060811 RE	240-948-5 RE	948H5A.D	07/06/2011 22:35
MSA-SW45B-060811 RE	240-948-6 RE	948H6A.D	07/06/2011 22:55
MSA-SW45C-060811 RE	240-948-7 RE	948H7A.D	07/06/2011 23:14
MSA-SW44A-060811 RE	240-948-8 RE	948G8A.D	07/06/2011 23:33
MSA-SW44B-060811 RE	240-948-9 RE	948H9A.D	07/06/2011 23:52
MSA-SW44C-060811 RE	240-948-10 RE	948G10A.D	07/07/2011 00:12

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-6848/20-A

Matrix: Water | Lab File ID: MB6048.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1000(mL) | Date Analyzed: 07/06/2011 17:26

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	1.0	U	1.0	0.80
123-91-1	1,4-Dioxane	1.0	U	1.0	0.49
88-06-2	2,4,6-Trichlorophenol	5.0	U	5.0	0.80
95-95-4	2,4,5-Trichlorophenol	5.0	U	5.0	0.30
120-83-2	2,4-Dichlorophenol	2.0	U	2.0	0.80
105-67-9	2,4-Dimethylphenol	2.0	U	2.0	0.80
51-28-5	2,4-Dinitrophenol	5.0	U	5.0	2.4
121-14-2	2,4-Dinitrotoluene	5.0	U	5.0	0.27
91-58-7	2-Chloronaphthalene	1.0	U	1.0	0.10
95-57-8	2-Chlorophenol	1.0	U	1.0	0.29
91-57-6	2-Methylnaphthalene	0.20	U	0.20	0.10
95-48-7	2-Methylphenol	1.0	U	1.0	0.80
88-74-4	2-Nitroaniline	2.0	U	2.0	0.80
88-75-5	2-Nitrophenol	2.0	U	2.0	0.28
15831-10-4	3 & 4 Methylphenol	2.0	U	2.0	0.75
91-94-1	3,3'-Dichlorobenzidine	5.0	U	5.0	0.37
99-09-2	3-Nitroaniline	2.0	U	2.0	0.28
534-52-1	4,6-Dinitro-2-methylphenol	5.0	U	5.0	2.4
101-55-3	4-Bromophenyl phenyl ether	2.0	U	2.0	0.80
59-50-7	4-Chloro-3-methylphenol	2.0	U	2.0	0.80
106-47-8	4-Chloroaniline	2.0	U	2.0	0.80
7005-72-3	4-Chlorophenyl phenyl ether	2.0	U	2.0	0.30
100-01-6	4-Nitroaniline	2.0	U	2.0	0.80
83-32-9	Acenaphthene	0.20	U	0.20	0.10
208-96-8	Acenaphthylene	0.20	U	0.20	0.10
98-86-2	Acetophenone	0.427	J	1.0	0.34
120-12-7	Anthracene	0.20	U	0.20	0.10
1912-24-9	Atrazine	1.0	U	1.0	0.34
100-52-7	Benzaldehyde	0.496	J	1.0	0.39
56-55-3	Benzo[a]anthracene	0.20	U	0.20	0.10
50-32-8	Benzo[a]pyrene	0.20	U	0.20	0.10
205-99-2	Benzo[b]fluoranthene	0.20	U	0.20	0.10
191-24-2	Benzo[g,h,i]perylene	0.20	U	0.20	0.10
207-08-9	Benzo[k]fluoranthene	0.20	U	0.20	0.10

FORM I

GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-6848/20-A

Matrix: Water | Lab File ID: MB6048.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1000(mL) | Date Analyzed: 07/06/2011 17:26

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
111-91-1	Bis(2-chloroethoxy)methane	1.0	U	1.0	0.32
111-44-4	Bis(2-chloroethyl)ether	1.0	U	1.0	0.10
117-81-7	Bis(2-ethylhexyl) phthalate	2.0	U	2.0	0.80
85-68-7	Butyl benzyl phthalate	1.0	U	1.0	0.80
105-60-2	Caprolactam	5.0	U	5.0	0.80
86-74-8	Carbazole	1.0	U	1.0	0.28
218-01-9	Chrysene	0.20	U	0.20	0.10
84-74-2	Di-n-butyl phthalate	1.0	U	1.0	0.67
117-84-0	Di-n-octyl phthalate	1.0	U	1.0	0.80
53-70-3	Dibenzo(a,h)anthracene	0.20	U	0.20	0.10
132-64-9	Dibenzofuran	1.0	U	1.0	0.10
84-66-2	Diethyl phthalate	1.0	U	1.0	0.60
131-11-3	Dimethyl phthalate	1.0	U	1.0	0.29
206-44-0	Fluoranthene	0.20	U	0.20	0.10
86-73-7	Fluorene	0.20	U	0.20	0.10
118-74-1	Hexachlorobenzene	0.20	U	0.20	0.10
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.27
77-47-4	Hexachlorocyclopentadiene	10	U	10	0.80
67-72-1	Hexachloroethane	1.0	U	1.0	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	0.20	U	0.20	0.10
78-59-1	Isophorone	1.0	U	1.0	0.27
621-64-7	N-Nitrosodi-n-propylamine	1.0	U	1.0	0.80
62-75-9	N-Nitrosodimethylamine	1.0	U	1.0	0.31
86-30-6	N-Nitrosodiphenylamine	1.0	U	1.0	0.31
91-20-3	Naphthalene	0.20	U	0.20	0.10
98-95-3	Nitrobenzene	1.0	U	1.0	0.040
87-86-5	Pentachlorophenol	5.0	U	5.0	2.4
85-01-8	Phenanthrene	0.20	U	0.20	0.10
108-95-2	Phenol	1.0	U	1.0	0.60
129-00-0	Pyrene	0.20	U	0.20	0.10
108-60-1	2,2'-oxybis[1-chloropropane]	1.0	U	1.0	0.40
606-20-2	2,6-Dinitrotoluene	5.0	U	5.0	0.80
100-02-7	4-Nitrophenol	5.0	U	5.0	2.4

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-6848/20-A

Matrix: Water | Lab File ID: MB6048.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3520C | Date Extracted: 07/01/2011 08:52

Sample wt/vol: 1000(mL) | Date Analyzed: 07/06/2011 17:26

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 7455 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	88		37-119
4165-62-2	Phenol-d5 (Surr)	73		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	68		27-111
367-12-4	2-Fluorophenol (Surr)	70		10-110
321-60-8	2-Fluorobiphenyl (Surr)	68		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	75		22-120

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): RXI-5SILMS ID: 0.45 (mm)

Client Sample ID	Lab Sample ID	2FP	#	PHL	#	NBZ	#	FBP	#	TBP	#	TPH	#
MSA-SW42B-060811	240-948-24	47		49		45		46		60		48	
MSA-SW42C-060811	240-948-25	46		49		44		47		65		52	
MSA-SW42C-060811	240-948-25	49		46		45		54		63		65	
MSA-SW37A-060811	240-948-26	47		49		45		43		62		43	
MSA-SW37B-060811	240-948-27	51		53		48		46		65		51	
MSA-SW37C-060811	240-948-28	51		53		48		46		63		55	
	MB 240-4330/21-A	55		56		53		51		51		61	
	MB 240-4415/21-A	56		57		53		49		61		67	
	MB 240-6848/20-A	70		73		68		68		75		88	
	LCS 240-4330/22-A	74		71		79		66		72		60	
	LCS 240-4415/22-A	58		63		55		57		71		71	
	LCS 240-6848/21-A	79		81		77		77		82		91	

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	10-110
PHL = Phenol-d5 (Surr)	10-110
NBZ = Nitrobenzene-d5 (Surr)	27-111
FBP = 2-Fluorobiphenyl (Surr)	28-110
TBP = 2,4,6-Tribromophenol (Surr)	22-120
TPH = Terphenyl-d14 (Surr)	37-119

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 0629105.D

Lab ID: LCS 240-4330/22-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	20.0	13.9	70	50-130	
1,4-Dioxane	20.0	13.3	67	10-110	
2,4,6-Trichlorophenol	20.0	13.8	69	35-110	
2,4,5-Trichlorophenol	20.0	14.0	70	39-110	
2,4-Dichlorophenol	20.0	14.2	71	33-110	
2,4-Dimethylphenol	20.0	13.4	67	12-110	
2,4-Dinitrophenol	20.0	8.30	42	17-112	
2,4-Dinitrotoluene	20.0	15.2	76	52-123	
2-Chloronaphthalene	20.0	14.0	70	39-110	
2-Chlorophenol	20.0	14.0	70	27-110	
2-Methylnaphthalene	20.0	16.6	83	35-110	
2-Methylphenol	20.0	13.7	68	30-110	
2-Nitroaniline	20.0	16.3	81	43-130	
2-Nitrophenol	20.0	15.0	75	29-110	
3 & 4 Methylphenol	40.0	29.4	74	32-110	
3,3'-Dichlorobenzidine	20.0	8.62	43	19-110	
3-Nitroaniline	20.0	13.6	68	45-116	
4,6-Dinitro-2-methylphenol	20.0	12.1	60	28-112	
4-Bromophenyl phenyl ether	20.0	13.0	65	51-114	
4-Chloro-3-methylphenol	20.0	15.6	78	39-110	
4-Chloroaniline	20.0	12.3	62	10-110	
4-Chlorophenyl phenyl ether	20.0	13.5	68	50-115	
4-Nitroaniline	20.0	13.4	67	45-120	
Acenaphthene	20.0	13.3	66	40-110	
Acenaphthylene	20.0	13.6	68	43-110	
Acetophenone	20.0	15.2	76	50-130	
Anthracene	20.0	13.0	65	54-114	
Atrazine	20.0	14.4	72	50-130	
Benzaldehyde	20.0	27.4	137	10-130	*
Benzo[a]anthracene	20.0	11.3	56	55-115	
Benzo[a]pyrene	20.0	7.42	37	43-116	*
Benzo[b]fluoranthene	20.0	8.66	43	43-122	
Benzo[g,h,i]perylene	20.0	7.76	39	45-120	*
Benzo[k]fluoranthene	20.0	9.40	47	43-124	
Bis(2-chloroethoxy)methane	20.0	15.5	78	39-110	
Bis(2-chloroethyl)ether	20.0	16.1	80	34-113	
Bis(2-ethylhexyl) phthalate	20.0	9.78	49	36-163	
Butyl benzyl phthalate	20.0	13.9	70	53-126	
Caprolactam	20.0	12.5	63	50-130	
Carbazole	20.0	12.9	65	53-120	
Chrysene	20.0	11.8	59	55-115	
Di-n-butyl phthalate	20.0	14.1	71	55-122	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 0629105.D

Lab ID: LCS 240-4330/22-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Di-n-octyl phthalate	20.0	6.66	33	44-128	*
Dibenzo(a,h)anthracene	20.0	7.08	35	46-122	*
Dibenzofuran	20.0	13.2	66	46-111	
Diethyl phthalate	20.0	14.0	70	33-134	
Dimethyl phthalate	20.0	14.2	71	15-143	
Fluoranthene	20.0	13.2	66	54-122	
Fluorene	20.0	13.3	67	47-112	
Hexachlorobenzene	20.0	12.2	61	51-112	
Hexachlorobutadiene	20.0	13.1	66	13-110	
Hexachlorocyclopentadiene	20.0	7.88 J	39	10-110	
Hexachloroethane	20.0	14.5	72	12-110	
Indeno[1,2,3-cd]pyrene	20.0	7.28	36	46-121	*
Isophorone	20.0	15.5	78	44-128	
N-Nitrosodi-n-propylamine	20.0	15.8	79	37-121	
N-Nitrosodimethylamine	20.0	14.9	74	10-130	
N-Nitrosodiphenylamine	20.0	12.5	62	53-113	
Naphthalene	20.0	13.5	67	31-110	
Nitrobenzene	20.0	16.4	82	37-115	
Pentachlorophenol	20.0	12.4	62	26-110	
Phenanthrene	20.0	13.0	65	52-114	
Phenol	20.0	14.7	73	14-112	
Pyrene	20.0	13.3	66	55-120	
2,2'-oxybis[1-chloropropane]	20.0	16.5	82	25-128	
2,6-Dinitrotoluene	20.0	15.1	76	52-119	
4-Nitrophenol	20.0	19.7	99	12-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 0705105.D

Lab ID: LCS 240-4415/22-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	20.0	11.8	59	50-130	
1,4-Dioxane	20.0	15.3	76	10-110	
2,4,6-Trichlorophenol	20.0	14.0	70	35-110	
2,4,5-Trichlorophenol	20.0	13.8	69	39-110	
2,4-Dichlorophenol	20.0	13.5	67	33-110	
2,4-Dimethylphenol	20.0	12.1	60	12-110	
2,4-Dinitrophenol	20.0	11.9	59	17-112	
2,4-Dinitrotoluene	20.0	14.6	73	52-123	
2-Chloronaphthalene	20.0	11.7	58	39-110	
2-Chlorophenol	20.0	11.9	60	27-110	
2-Methylnaphthalene	20.0	14.3	72	35-110	
2-Methylphenol	20.0	13.9	70	30-110	
2-Nitroaniline	20.0	12.0	60	43-130	
2-Nitrophenol	20.0	14.7	73	29-110	
3 & 4 Methylphenol	40.0	25.4	64	32-110	
3,3'-Dichlorobenzidine	20.0	5.88	29	19-110	
3-Nitroaniline	20.0	11.9	59	45-116	
4,6-Dinitro-2-methylphenol	20.0	13.1	66	28-112	
4-Bromophenyl phenyl ether	20.0	12.0	60	51-114	
4-Chloro-3-methylphenol	20.0	13.4	67	39-110	
4-Chloroaniline	20.0	11.2	56	10-110	
4-Chlorophenyl phenyl ether	20.0	12.6	63	50-115	
4-Nitroaniline	20.0	12.3	62	45-120	
Acenaphthene	20.0	12.0	60	40-110	
Acenaphthylene	20.0	12.2	61	43-110	
Acetophenone	20.0	12.9	64	50-130	
Anthracene	20.0	12.2	61	54-114	
Atrazine	20.0	14.1	71	50-130	
Benzaldehyde	20.0	13.6	68	10-130	
Benzo[a]anthracene	20.0	11.9	60	55-115	
Benzo[a]pyrene	20.0	10.0	50	43-116	
Benzo[b]fluoranthene	20.0	11.9	60	43-122	
Benzo[g,h,i]perylene	20.0	12.9	64	45-120	
Benzo[k]fluoranthene	20.0	11.9	60	43-124	
Bis(2-chloroethoxy)methane	20.0	12.6	63	39-110	
Bis(2-chloroethyl)ether	20.0	11.9	60	34-113	
Bis(2-ethylhexyl) phthalate	20.0	16.4	82	36-163	
Butyl benzyl phthalate	20.0	12.3	61	53-126	
Caprolactam	20.0	13.7	69	50-130	
Carbazole	20.0	12.4	62	53-120	
Chrysene	20.0	12.0	60	55-115	
Di-n-butyl phthalate	20.0	14.2	71	55-122	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 0705105.D

Lab ID: LCS 240-4415/22-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Di-n-octyl phthalate	20.0	12.1	61	44-128	
Dibenzo(a,h)anthracene	20.0	12.5	62	46-122	
Dibenzofuran	20.0	12.3	61	46-111	
Diethyl phthalate	20.0	13.3	66	33-134	
Dimethyl phthalate	20.0	12.9	64	15-143	
Fluoranthene	20.0	13.1	66	54-122	
Fluorene	20.0	12.4	62	47-112	
Hexachlorobenzene	20.0	12.4	62	51-112	
Hexachlorobutadiene	20.0	11.0	55	13-110	
Hexachlorocyclopentadiene	20.0	6.52 J	33	10-110	
Hexachloroethane	20.0	10.2	51	12-110	
Indeno[1,2,3-cd]pyrene	20.0	12.4	62	46-121	
Isophorone	20.0	11.6	58	44-128	
N-Nitrosodi-n-propylamine	20.0	12.5	62	37-121	
N-Nitrosodimethylamine	20.0	10.7	53	10-130	
N-Nitrosodiphenylamine	20.0	11.5	57	53-113	
Naphthalene	20.0	11.9	59	31-110	
Nitrobenzene	20.0	12.0	60	37-115	
Pentachlorophenol	20.0	8.90	45	26-110	
Phenanthrene	20.0	12.4	62	52-114	
Phenol	20.0	12.7	63	14-112	
Pyrene	20.0	12.0	60	55-120	
2,2'-oxybis[1-chloropropane]	20.0	10.8	54	25-128	
2,6-Dinitrotoluene	20.0	14.4	72	52-119	
4-Nitrophenol	20.0	15.5	77	12-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCS6048.D

Lab ID: LCS 240-6848/21-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	20.0	15.6	78	50-130	
1,4-Dioxane	20.0	13.2	66	10-110	
2,4,6-Trichlorophenol	20.0	16.6	83	35-110	
2,4,5-Trichlorophenol	20.0	16.5	82	39-110	
2,4-Dichlorophenol	20.0	16.7	83	33-110	
2,4-Dimethylphenol	20.0	12.5	62	12-110	
2,4-Dinitrophenol	20.0	15.0	75	17-112	
2,4-Dinitrotoluene	20.0	17.8	89	52-123	
2-Chloronaphthalene	20.0	16.2	81	39-110	
2-Chlorophenol	20.0	16.5	83	27-110	
2-Methylnaphthalene	20.0	18.9	95	35-110	
2-Methylphenol	20.0	15.9	79	30-110	
2-Nitroaniline	20.0	16.1	81	43-130	
2-Nitrophenol	20.0	17.3	86	29-110	
3 & 4 Methylphenol	40.0	32.2	81	32-110	
3,3'-Dichlorobenzidine	20.0	11.0	55	19-110	
3-Nitroaniline	20.0	16.0	80	45-116	
4,6-Dinitro-2-methylphenol	20.0	17.1	86	28-112	
4-Bromophenyl phenyl ether	20.0	16.9	84	51-114	
4-Chloro-3-methylphenol	20.0	16.6	83	39-110	
4-Chloroaniline	20.0	14.7	73	10-110	
4-Chlorophenyl phenyl ether	20.0	16.7	83	50-115	
4-Nitroaniline	20.0	16.1	81	45-120	
Acenaphthene	20.0	15.8	79	40-110	
Acenaphthylene	20.0	15.8	79	43-110	
Acetophenone	20.0	16.2	81	50-130	
Anthracene	20.0	15.8	79	54-114	
Atrazine	20.0	17.6	88	50-130	
Benzaldehyde	20.0	22.8	114	10-130	
Benzo[a]anthracene	20.0	15.5	78	55-115	
Benzo[a]pyrene	20.0	13.8	69	43-116	
Benzo[b]fluoranthene	20.0	14.9	74	43-122	
Benzo[g,h,i]perylene	20.0	16.7	84	45-120	
Benzo[k]fluoranthene	20.0	17.2	86	43-124	
Bis(2-chloroethoxy)methane	20.0	16.9	85	39-110	
Bis(2-chloroethyl)ether	20.0	16.8	84	34-113	
Bis(2-ethylhexyl) phthalate	20.0	9.94	50	36-163	
Butyl benzyl phthalate	20.0	17.2	86	53-126	
Caprolactam	20.0	18.1	90	50-130	
Carbazole	20.0	16.0	80	53-120	
Chrysene	20.0	16.3	81	55-115	
Di-n-butyl phthalate	20.0	17.4	87	55-122	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Matrix: Water Level: Low Lab File ID: LCS6048.D

Lab ID: LCS 240-6848/21-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Di-n-octyl phthalate	20.0	9.50	48	44-128	
Dibenzo(a,h)anthracene	20.0	15.9	80	46-122	
Dibenzofuran	20.0	16.4	82	46-111	
Diethyl phthalate	20.0	16.9	84	33-134	
Dimethyl phthalate	20.0	16.9	84	15-143	
Fluoranthene	20.0	17.1	85	54-122	
Fluorene	20.0	15.9	79	47-112	
Hexachlorobenzene	20.0	15.8	79	51-112	
Hexachlorobutadiene	20.0	15.3	77	13-110	
Hexachlorocyclopentadiene	20.0	7.24 J	36	10-110	
Hexachloroethane	20.0	15.3	77	12-110	
Indeno[1,2,3-cd]pyrene	20.0	16.2	81	46-121	
Isophorone	20.0	16.2	81	44-128	
N-Nitrosodi-n-propylamine	20.0	16.5	83	37-121	
N-Nitrosodimethylamine	20.0	15.5	77	10-130	
N-Nitrosodiphenylamine	20.0	15.3	77	53-113	
Naphthalene	20.0	15.8	79	31-110	
Nitrobenzene	20.0	16.6	83	37-115	
Pentachlorophenol	20.0	17.6	88	26-110	
Phenanthrene	20.0	15.7	78	52-114	
Phenol	20.0	16.4	82	14-112	
Pyrene	20.0	16.1	81	55-120	
2,2'-oxybis[1-chloropropane]	20.0	16.6	83	25-128	
2,6-Dinitrotoluene	20.0	17.9	90	52-119	
4-Nitrophenol	20.0	17.1	86	12-130	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: STD6 240-6150/7 Date Analyzed: 06/27/2011 12:45

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0627105.D Heated Purge: (Y/N) N

Calibration ID: 1854

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		159011	3.53	604429	4.43	340305	5.71
UPPER LIMIT		318022	4.03	1208858	4.93	680610	6.21
LOWER LIMIT		79506	3.03	302215	3.93	170153	5.21
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-6150/13		178853	3.53	691169	4.43	373123	5.70
CCV 240-6510/4 CCVIS		117726	3.50	421407	4.39	227138	5.66
CCV 240-6510/5		163521	3.50	625208	4.38	336875	5.66

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII

GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: STD6 240-6150/7 Date Analyzed: 06/27/2011 12:45

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0627105.D Heated Purge: (Y/N) N

Calibration ID: 1854

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		503787	6.80	520145	8.81	431805	10.21
UPPER LIMIT		1007574	7.30	1040290	9.31	863610	10.71
LOWER LIMIT		251894	6.30	260073	8.31	215903	9.71
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-6150/13		588661	6.79	603639	8.77	495341	10.16
CCV 240-6510/4 CCVIS		350449	6.75	361291	8.72	300624	10.09
CCV 240-6510/5		514560	6.75	504431	8.72	429816	10.08

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: CCV 240-6510/4 Date Analyzed: 06/29/2011 12:59

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0629102.D Heated Purge: (Y/N) N

Calibration ID: 1858

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		117726	3.50	421407	4.39	227138	5.66
UPPER LIMIT		235452	4.00	842814	4.89	454276	6.16
LOWER LIMIT		58863	3.00	210704	3.89	113569	5.16
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-6510/5		163521	3.50	625208	4.38	336875	5.66
MB 240-4330/21-A		140563	3.50	545363	4.39	288172	5.66
LCS 240-4330/22-A		135544	3.50	521169	4.39	284993	5.66
240-948-2	MSA-SW39A-060811	149340	3.50	542178	4.39	311328	5.66
240-948-3	MSA-SW39B-060811	132655	3.50	483672	4.39	281783	5.66
240-948-4	MSA-SW39C-060811	130789	3.50	465289	4.39	249030	5.66
240-948-5	MSA-SW45A-060811	183180	3.50	683092	4.39	394465	5.66
240-948-6	MSA-SW45B-060811	140905	3.49	537944	4.39	305749	5.66
240-948-7	MSA-SW45C-060811	121603	3.49	467163	4.39	246052	5.66
240-948-8	MSA-SW44A-060811	171973	3.50	620060	4.39	365304	5.66
240-948-9	MSA-SW44B-060811	143174	3.50	516881	4.39	296374	5.66
240-948-10	MSA-SW44C-060811	175156	3.50	664698	4.39	385065	5.66

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: CCV 240-6510/4 Date Analyzed: 06/29/2011 12:59

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0629102.D Heated Purge: (Y/N) N

Calibration ID: 1858

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		350449	6.75	361291	8.72	300624	10.09
UPPER LIMIT		700898	7.25	722582	9.22	601248	10.59
LOWER LIMIT		175225	6.25	180646	8.22	150312	9.59
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-6510/5		514560	6.75	504431	8.72	429816	10.08
MB 240-4330/21-A		457761	6.75	447254	8.72	367584	10.09
LCS 240-4330/22-A		448342	6.75	428472	8.72	360516	10.08
240-948-2	MSA-SW39A-060811	518295	6.75	512811	8.71	445465	10.08
240-948-3	MSA-SW39B-060811	468193	6.75	498831	8.72	429254	10.09
240-948-4	MSA-SW39C-060811	435785	6.75	430280	8.72	363970	10.08
240-948-5	MSA-SW45A-060811	682575	6.75	664188	8.72	564890	10.09
240-948-6	MSA-SW45B-060811	513590	6.75	502487	8.72	447577	10.09
240-948-7	MSA-SW45C-060811	451393	6.75	437781	8.72	392980	10.09
240-948-8	MSA-SW44A-060811	590406	6.75	601559	8.72	520292	10.09
240-948-9	MSA-SW44B-060811	492685	6.75	498324	8.72	419207	10.09
240-948-10	MSA-SW44C-060811	620896	6.75	625226	8.72	516216	10.09

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: STD6 240-6758/7 Date Analyzed: 06/30/2011 14:49

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0630105.D Heated Purge: (Y/N) N

Calibration ID: 1920

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		466034	3.50	1822043	4.40	994767	5.67
UPPER LIMIT		932068	4.00	3644086	4.90	1989534	6.17
LOWER LIMIT		233017	3.00	911022	3.90	497384	5.17
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-6758/13		529014	3.50	2105872	4.40	1166159	5.67
CCV 240-7093/4 CCVIS		487720	3.44	1907798	4.33	1062780	5.60
CCV 240-7093/5		448186	3.43	1756604	4.33	986342	5.60
CCV 240-7441/4 CCVIS		419785	3.38	1618158	4.27	870260	5.54
CCV 240-7441/5		383530	3.37	1495428	4.26	839784	5.54

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: STD6 240-6758/7 Date Analyzed: 06/30/2011 14:49

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0630105.D Heated Purge: (Y/N) N

Calibration ID: 1920

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1517389	6.76	1378609	8.73	1195191	10.10
UPPER LIMIT		3034778	7.26	2757218	9.23	2390382	10.60
LOWER LIMIT		758695	6.26	689305	8.23	597596	9.60
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-6758/13		1801733	6.76	1618779	8.73	1426399	10.10
CCV 240-7093/4 CCVIS		1657354	6.69	1513232	8.66	1368379	9.98
CCV 240-7093/5		1563496	6.69	1406532	8.65	1263393	9.97
CCV 240-7441/4 CCVIS		1334417	6.63	1228489	8.59	1095093	9.87
CCV 240-7441/5		1319274	6.62	1133657	8.58	1007421	9.86

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: CCV 240-7093/4 Date Analyzed: 07/05/2011 11:41

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0705102.D Heated Purge: (Y/N) N

Calibration ID: 1924

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		487720	3.44	1907798	4.33	1062780	5.60
UPPER LIMIT		975440	3.94	3815596	4.83	2125560	6.10
LOWER LIMIT		243860	2.94	953899	3.83	531390	5.10
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-7093/5		448186	3.43	1756604	4.33	986342	5.60
MB 240-4415/21-A		396409	3.44	1535869	4.33	872204	5.60
LCS 240-4415/22-A		368729	3.44	1519481	4.33	877843	5.60
240-948-11	MSA-SW41A-060811	412522	3.44	1573795	4.33	913379	5.60
240-948-13	MSA-SW41C-060811	411726	3.44	1542576	4.33	902469	5.60
240-948-14	MSA-SW38A-060811	440764	3.44	1685820	4.33	984444	5.60
240-948-15	MSA-SW38B-060811	518621	3.44	1956796	4.33	1152007	5.60
240-948-16	MSA-SW38C-060811	313386	3.43	1247462	4.33	705468	5.60
240-948-17	MSA-SW43A-060811	446890	3.44	1687318	4.33	971718	5.60
240-948-18	MSA-SW43B-060811	454760	3.44	1716306	4.33	1002444	5.60
240-948-19	MSA-SW43C-060811	327367	3.43	1255191	4.33	711672	5.60
240-948-20	MSA-SW40A-060811	434676	3.44	1626396	4.33	968888	5.60
240-948-25	MSA-SW42C-060811	328390	3.43	1231013	4.33	724221	5.60
240-948-26	MSA-SW37A-060811	499053	3.44	1893614	4.33	1117966	5.60
240-948-27	MSA-SW37B-060811	457804	3.44	1753463	4.33	1043409	5.60
240-948-28	MSA-SW37C-060811	387528	3.44	1469722	4.33	860127	5.60
240-948-21	MSA-SW40B-060811	382605	3.44	1402699	4.33	834120	5.60
240-948-22	MSA-SW40C-060811	441246	3.44	1636329	4.33	977138	5.60
240-948-23	MSA-SW42A-060811	485717	3.44	1846046	4.33	1084242	5.60
240-948-24	MSA-SW42B-060811	446219	3.44	1685312	4.33	982665	5.60

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: CCV 240-7093/4 Date Analyzed: 07/05/2011 11:41

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0705102.D Heated Purge: (Y/N) N

Calibration ID: 1924

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1657354	6.69	1513232	8.66	1368379	9.98
UPPER LIMIT		3314708	7.19	3026464	9.16	2736758	10.48
LOWER LIMIT		828677	6.19	756616	8.16	684190	9.48
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-7093/5		1563496	6.69	1406532	8.65	1263393	9.97
MB 240-4415/21-A		1403116	6.69	1261818	8.65	1132558	9.97
LCS 240-4415/22-A		1406546	6.69	1296729	8.65	1150402	9.97
240-948-11	MSA-SW41A-060811	1468322	6.69	1335999	8.65	1175517	9.97
240-948-13	MSA-SW41C-060811	1444811	6.69	1333638	8.65	1182038	9.98
240-948-14	MSA-SW38A-060811	1576453	6.69	1453680	8.65	1292358	9.97
240-948-15	MSA-SW38B-060811	1826120	6.69	1675960	8.65	1522228	9.98
240-948-16	MSA-SW38C-060811	1125340	6.69	1023277	8.65	908477	9.97
240-948-17	MSA-SW43A-060811	1555116	6.69	1440983	8.65	1285068	9.98
240-948-18	MSA-SW43B-060811	1584868	6.69	1467338	8.65	1308558	9.98
240-948-19	MSA-SW43C-060811	1133464	6.69	1048219	8.65	926219	9.97
240-948-20	MSA-SW40A-060811	1534264	6.69	1418108	8.65	1273053	9.97
240-948-25	MSA-SW42C-060811	1146336	6.69	1124255	8.65	1024928	9.98
240-948-26	MSA-SW37A-060811	1792058	6.69	1675889	8.65	1501706	9.97
240-948-27	MSA-SW37B-060811	1675469	6.69	1562801	8.66	1403476	9.99
240-948-28	MSA-SW37C-060811	1374833	6.69	1288395	8.65	1138063	9.97
240-948-21	MSA-SW40B-060811	1361303	6.69	1219347	8.65	1075694	9.97
240-948-22	MSA-SW40C-060811	1579497	6.69	1486026	8.65	1314515	9.97
240-948-23	MSA-SW42A-060811	1754007	6.69	1631786	8.65	1448135	9.97
240-948-24	MSA-SW42B-060811	1597052	6.69	1476695	8.65	1326935	9.97

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: CCV 240-7441/4 Date Analyzed: 07/07/2011 08:03

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0707102.D Heated Purge: (Y/N) N

Calibration ID: 1924

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		419785	3.38	1618158	4.27	870260	5.54
UPPER LIMIT		839570	3.88	3236316	4.77	1740520	6.04
LOWER LIMIT		209893	2.88	809079	3.77	435130	5.04
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-7441/5		383530	3.37	1495428	4.26	839784	5.54
240-948-12	MSA-SW41B-060811	365612	3.37	1397808	4.26	819296	5.54
240-948-25	MSA-SW42C-060811	383715	3.37	1518854	4.26	862898	5.54

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: CCV 240-7441/4 Date Analyzed: 07/07/2011 08:03

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 0707102.D Heated Purge: (Y/N) N

Calibration ID: 1924

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1334417	6.63	1228489	8.59	1095093	9.87
UPPER LIMIT		2668834	7.13	2456978	9.09	2190186	10.37
LOWER LIMIT		667209	6.13	614245	8.09	547547	9.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-7441/5		1319274	6.62	1133657	8.58	1007421	9.86
240-948-12	MSA-SW41B-060811	1319899	6.62	1197319	8.58	1053033	9.86
240-948-25	MSA-SW42C-060811	1358845	6.62	1262696	8.58	1134708	9.85

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: STD6 240-7247/10 Date Analyzed: 07/05/2011 15:06

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 9SMH0705.D Heated Purge: (Y/N) N

Calibration ID: 2119

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		190014	3.75	737239	4.72	411752	6.01
UPPER LIMIT		380028	4.25	1474478	5.22	823504	6.51
LOWER LIMIT		95007	3.25	368620	4.22	205876	5.51
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-7247/11		237601	3.76	903858	4.72	506122	6.02
CCV 240-7455/2 CCVIS		190946	3.78	771273	4.74	440185	6.04

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: STD6 240-7247/10 Date Analyzed: 07/05/2011 15:06

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 9SMH0705.D Heated Purge: (Y/N) N

Calibration ID: 2119

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		696455	7.10	696410	9.05	594252	10.37
UPPER LIMIT		1392910	7.60	1392820	9.55	1188504	10.87
LOWER LIMIT		348228	6.60	348205	8.55	297126	9.87
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-7247/11		866941	7.10	873599	9.06	747106	10.37
CCV 240-7455/2 CCVIS		745437	7.12	738655	9.10	627950	10.44

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: CCV 240-7455/2 Date Analyzed: 07/06/2011 16:43

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 9SMH0706.D Heated Purge: (Y/N) N

Calibration ID: 2115

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		190946	3.78	771273	4.74	440185	6.04
UPPER LIMIT		381892	4.28	1542546	5.24	880370	6.54
LOWER LIMIT		95473	3.28	385637	4.24	220093	5.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-7455/3		174554	3.78	691118	4.74	388385	6.03
MB 240-6848/20-A		163696	3.78	632055	4.74	352507	6.03
LCS 240-6848/21-A		156383	3.78	605732	4.74	346754	6.03
240-948-2 RE	MSA-SW39A-060811 RE	162223	3.78	634582	4.74	359279	6.03
240-948-3 RE	MSA-SW39B-060811 RE	157630	3.78	607273	4.74	341169	6.03
240-948-4 RE	MSA-SW39C-060811 RE	121390	3.78	473007	4.74	263200	6.03
240-948-5 RE	MSA-SW45A-060811 RE	171599	3.78	659684	4.74	367529	6.03
240-948-6 RE	MSA-SW45B-060811 RE	185176	3.78	709828	4.74	404476	6.03
240-948-7 RE	MSA-SW45C-060811 RE	175289	3.78	663853	4.74	373056	6.03
240-948-8 RE	MSA-SW44A-060811 RE	166860	3.78	624784	4.74	183122*	6.03
240-948-9 RE	MSA-SW44B-060811 RE	145095	3.78	560003	4.74	303418	6.03
240-948-10 RE	MSA-SW44C-060811 RE	163794	3.78	617349	4.74	347951	6.04

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Sample No.: CCV 240-7455/2 Date Analyzed: 07/06/2011 16:43

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 9SMH0706.D Heated Purge: (Y/N) N

Calibration ID: 2115

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		745437	7.12	738655	9.10	627950	10.44
UPPER LIMIT		1490874	7.62	1477310	9.60	1255900	10.94
LOWER LIMIT		372719	6.62	369328	8.60	313975	9.94
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-7455/3		673496	7.12	664297	9.09	564651	10.42
MB 240-6848/20-A		606423	7.12	597687	9.07	516041	10.40
LCS 240-6848/21-A		600151	7.12	589678	9.08	494123	10.40
240-948-2 RE	MSA-SW39A-060811 RE	619152	7.11	604031	9.06	502678	10.38
240-948-3 RE	MSA-SW39B-060811 RE	579547	7.12	574242	9.06	491063	10.39
240-948-4 RE	MSA-SW39C-060811 RE	449118	7.11	441483	9.06	365276	10.38
240-948-5 RE	MSA-SW45A-060811 RE	628155	7.12	631548	9.06	531794	10.39
240-948-6 RE	MSA-SW45B-060811 RE	689883	7.12	692150	9.06	584771	10.39
240-948-7 RE	MSA-SW45C-060811 RE	641371	7.12	636441	9.06	547242	10.38
240-948-8 RE	MSA-SW44A-060811 RE	537383	7.12	470236	9.06	43134*	10.39
240-948-9 RE	MSA-SW44B-060811 RE	522705	7.12	514326	9.06	427758	10.38
240-948-10 RE	MSA-SW44C-060811 RE	607470	7.11	614189	9.06	512903	10.38

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

TETRA TECH NUS, INC. **CALCULATION WORKSHEET** PAGE 1 OF 1

CLIENT		JOB NUMBER	
MSA Groundwater		240-948-1	
SUBJECT: Sample Calculation			
BASED ON		DRAWING NUMBER	
BY: Ann Cognetta	CHECKED BY	APPROVED BY: JAS 7-18-11	DATE: July 15, 2011

I. VOC; Sample MSA-SW45A-060811, (trichloroethene)

$$\frac{13966}{1902145} * 1 * \frac{5}{5} * \frac{10}{0.2614} = 0.2849 \text{ ug/L} \checkmark$$

II. SVOC; Sample MSA-SW42C-060811; bis(2-ethylhexyl)phthalate

$$\frac{6331089}{1262696} * 4 * \frac{4}{0.9620 \frac{ng}{mL}} * \frac{2 mL}{1030 mL} * \frac{1000 ng}{ug} = 161.93 \text{ ug/L} \checkmark$$

Sample Calculation

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1

SDG No.:

Client Sample ID: MSA-SW45A-060811 | Lab Sample ID: 240-948-5

Matrix: Water | Lab File ID: UXJ8029.D

Analysis Method: 8260B | Date Collected: 06/08/2011 09:20

Sample wt/vol: 5(mL) | Date Analyzed: 06/22/2011 16:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 5679 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
637-92-3	Ethyl-t-butyl ether (ETBE)	5.0	U	5.0	0.11
87-68-3	Hexachlorobutadiene	1.0	U	1.0	0.30
591-78-6	2-Hexanone	5.0	U	5.0	0.41
98-82-8	Isopropylbenzene	1.0	U	1.0	0.13
75-09-2	Methylene Chloride	1.0	U	1.0	0.33
108-10-1	4-Methyl-2-pentanone	5.0	U	5.0	0.32
1634-04-4	Methyl tert-butyl ether	5.0	U	5.0	0.17
179601-23-1	m-Xylene & p-Xylene	2.0	U	2.0	0.24
91-20-3	Naphthalene	1.0	U	1.0	0.24
104-51-8	n-Butylbenzene	1.0	U	1.0	0.12
103-65-1	n-Propylbenzene	1.0	U	1.0	0.14
95-47-6	o-Xylene	1.0	U	1.0	0.14
99-87-6	p-Isopropyltoluene	1.0	U	1.0	0.12
135-98-8	sec-Butylbenzene	1.0	U	1.0	0.13
100-42-5	Styrene	1.0	U	1.0	0.11
994-05-8	Tert-amyl-methyl ether (TAME)	5.0	U	5.0	0.067
75-65-0	tert-Butyl alcohol	20	U	20	3.9
98-06-6	tert-Butylbenzene	1.0	U	1.0	0.13
630-20-6	1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.18
127-18-4	Tetrachloroethene	1.0	U	1.0	0.29
108-88-3	Toluene	1.0	U	1.0	0.13
156-60-5	trans-1,2-Dichloroethene	1.0	U	1.0	0.19
10061-02-6	trans-1,3-Dichloropropene	1.0	U	1.0	0.19
87-61-6	1,2,3-Trichlorobenzene	1.0	U	1.0	0.17
120-82-1	1,2,4-Trichlorobenzene	1.0	U	1.0	0.15
71-55-6	1,1,1-Trichloroethane	1.0	U	1.0	0.22
79-01-6	Trichloroethene	0.28	J	1.0	0.17
75-69-4	Trichlorofluoromethane	1.0	U	1.0	0.21
96-18-4	1,2,3-Trichloropropane	1.0	U	1.0	0.43
76-13-1	1,1,2-Trichloro-1,2,2-trichfluoroethane	1.0	U	1.0	0.28
526-73-8	1,2,3-Trimethylbenzene	5.0	U	5.0	0.0059
95-63-6	1,2,4-Trimethylbenzene	1.0	U	1.0	0.12
108-05-4	Vinyl acetate	2.0	U	2.0	0.19
75-01-4	Vinyl chloride	1.0	U	1.0	0.22

Sample Calculation

Report Date: 23-Jun-2011 09:19:39 Chrom Revision: 1.2 03-Jun-2011 08:44:02

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX11\20110622-1284.b\UXJ8029.D		
Lims ID:	240-948-B-5	Client ID:	MSA-SW45A-060811
Inject. Date:	22-Jun-2011 16:02:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	240-0001284-010		
Misc. Info.:	J10622A,8260LLUX11,,43582		
Operator:	43582	Instrument ID:	A3UX11
Vol. Injected:	1.0000	ALS Bottle#:	9
Lims Batch ID:	5679	Lims Sample ID:	10
Detector:	MS SCAN		
Method:	\\Ncchrom\ChromData\A3UX11\20110622-1284.b\8260_11.m		
Last Update:	23-Jun-2011 09:19:34	Calib Date:	21-Jun-2011 18:24:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Ncchrom\ChromData\A3UX11\20110621-1250.b\UXJ8011.D		
Limit Group:	MSV 8260B ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Process Host:	CORP-CTX-18		
First Level Reviewer: evansle		Date:	23-Jun-2011 08:01:28

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.200	5.201	0.0	98	1902145	10.0	
* 2 Chlorobenzene-d5	117	7.875	7.863	0.012	85	1290714	10.0	
* 3 1,4-Dichlorobenzene-d4	152	10.111	10.111	0.0	98	557914	10.0	
$ 4 Dibromofluoromethane (Surr)	113	4.621	4.621	0.0	98	346910	8.06	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	4.905	4.905	0.0	93	541262	8.22	
$ 6 Toluene-d8 (Surr)	98	6.561	6.561	0.0	94	1676408	8.41	
$ 7 4-Bromofluorobenzene (Surr)	95	8.975	8.975	0.0	80	596676	8.47	
8 Dichlorodifluoromethane	85		1.580					
9 Chloromethane	50		1.722					
10 Vinyl chloride	62		1.816					
11 Bromomethane	94		2.100					
12 Chloroethane	64		2.195					
14 Trichlorofluoromethane	101		2.408					
19 1,1-Dichloroethene	96		2.810					
17 Acetone	43	2.822	2.834	-0.012	69	36995	0.9178	
18 1,1,2-Trichloro-1,2,2-trifluoroethane	151		2.846					
23 Carbon disulfide	76		3.000					
26 Methylene Chloride	84		3.189					
27 2-Methyl-2-propanol	59		3.272					
29 trans-1,2-Dichloroethene	96		3.426					
30 Methyl tert-butyl ether	73		3.426					
32 1,1-Dichloroethane	63		3.769					
33 Vinyl acetate	86		3.792					
34 Isopropyl ether	87		3.816					
37 Tert-butyl ethyl ether	59		4.112					
38 2-Butanone (MEK)	43		4.230					
39 2,2-Dichloropropane	77		4.242					
40 cis-1,2-Dichloroethene	96		4.242					
43 Chlorobromomethane	128		4.431					
45 Chloroform	83		4.491					
46 1,1,1-Trichloroethane	97		4.668					

Sample Calculation

Report Date: 23-Jun-2011 09:19:39 Chrom Revision: 1.2 03-Jun-2011 08:44:02
Data File: \\Ncchrom\ChromData\A3UX11\20110622-1284.b\UXJ8029.D

Compound	Sig	RT	EXP RT	DLT RT	Q	Response	On-Col Amt ug/l	Flags
48 1,1-Dichloropropene	75		4.798					
49 Carbon tetrachloride	117		4.810					
51 1,2-Dichloroethane	62		4.976					
52 Benzene	78		4.976					
53 Tert-amyl methyl ether	73		5.059					
56 Trichloroethene	130	5.508	5.508	0.0	79	13966	0.2808	
59 1,2-Dichloropropane	63		5.697					
61 Dibromomethane	93		5.792					
63 Dichlorobromomethane	83		5.922					
65 2-Chloroethyl vinyl ether	63		6.171					
66 cis-1,3-Dichloropropene	75		6.313					
67 4-Methyl-2-pentanone (MIBK)	43		6.431					
68 Toluene	91		6.620					
69 trans-1,3-Dichloropropene	75		6.786					
73 1,3-Dichloropropane	76		7.117					
72 Tetrachloroethene	164		7.117					
74 2-Hexanone	43		7.177					
76 Chlorodibromomethane	129		7.319					
77 Ethylene Dibromide	107		7.437					
79 Chlorobenzene	112		7.898					
80 1,1,1,2-Tetrachloroethane	131		7.969					
81 Ethylbenzene	106		7.993					
82 m-Xylene & p-Xylene	106		8.100					
83 o-Xylene	106		8.478					
84 Styrene	104		8.490					
85 Bromoform	173		8.668					
86 Isopropylbenzene	105		8.833					
88 1,1,2,2-Tetrachloroethane	83		9.094					
89 Bromobenzene	156		9.129					
90 1,2,3-Trichloropropane	110		9.153					
92 N-Propylbenzene	120		9.236					
93 2-Chlorotoluene	126		9.318					
95 4-Chlorotoluene	126		9.425					
96 tert-Butylbenzene	119		9.721					
97 1,2,4-Trimethylbenzene	105		9.768					
98 sec-Butylbenzene	105		9.945					
99 1,3-Dichlorobenzene	146		10.052					
100 4-Isopropyltoluene	119		10.076					
101 1,4-Dichlorobenzene	146		10.135					
102 1,2,3-Trimethylbenzene	105		10.182					
103 n-Butylbenzene	91		10.490					
104 1,2-Dichlorobenzene	146		10.502					
105 1,2-Dibromo-3-Chloropropane	157		11.271					
107 1,2,4-Trichlorobenzene	180		12.111					
108 Hexachlorobutadiene	225		12.288					
109 Naphthalene	128		12.359					
110 1,2,3-Trichlorobenzene	180		12.608					
S 114 Xylenes, Total	106		16.530					7

Sample Calculation

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 5529

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/21/2011 14:13 Calibration End Date: 06/21/2011 16:07 Calibration ID: 1566

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
tert-Butyl alcohol	0.0176 0.0192	0.0189	0.0188	0.0193	0.0196	Ave		0.0189				3.6		15.0			
Acrylonitrile	0.1136 0.1154	0.1128	0.1167	0.1256	0.1190	Ave		0.1172				4.0		15.0			
Methyl tert-butyl ether	0.7239 0.8204	0.7803	0.7566	0.7912	0.8080	Ave		0.7801				4.5		15.0			
trans-1,2-Dichloroethene	0.2580 0.2719	0.2619	0.2641	0.2662	0.2655	Ave		0.2646				1.8		15.0			
Hexane	0.0519 0.0656	0.0682	0.0755	0.0618	0.0628	Ave		0.0643				12.0		15.0			
1,1-Dichloroethane	0.5209 0.5299	0.5381	0.5032	0.5222	0.5204	Ave		0.5225			0.1000	2.2		15.0			
Vinyl acetate	0.0405 0.0609	0.0408	0.0534	0.0589	0.0598	Lin1	-0.029	0.0613							0.9990		0.9900
2-Butanone	0.1483 0.1361	0.1382	0.1469	0.1423	0.1418	Ave		0.1423				3.3		15.0			
cis-1,2-Dichloroethene	0.2742 0.2976	0.2901	0.2833	0.2845	0.2914	Ave		0.2869				2.8		15.0			
2,2-Dichloropropane	0.2142 0.2595	0.2386	0.2402	0.2553	0.2582	Ave		0.2444				7.1		15.0			
Bromochloromethane	0.1209 0.1238	0.1194	0.1278	0.1194	0.1280	Ave		0.1232				3.2		15.0			
Tetrahydrofuran	0.1064 0.0903	0.0925	0.0951	0.0948	0.0921	Ave		0.0952				6.1		15.0			
Chloroform	0.4622 0.4939	0.4838	0.4554	0.4679	0.4770	Ave		0.4734				3.0		15.0			
1,1,1-Trichloroethane	0.3083 0.3641	0.3341	0.3473	0.3457	0.3642	Ave		0.3439				6.1		15.0			
Cyclohexane	0.4168 0.4442	0.4508	0.4895	0.4344	0.4423	Ave		0.4463				5.4		15.0			
1,1-Dichloropropene	0.3894 0.4107	0.3915	0.4008	0.4110	0.4094	Ave		0.4021				2.4		15.0			
Carbon tetrachloride	0.2544 0.3107	0.2741	0.2799	0.2859	0.2960	Ave		0.2835				6.8		15.0			
1,2-Dichloroethane	0.3919 0.4169	0.4239	0.3858	0.4068	0.4052	Ave		0.4051				3.6		15.0			
Benzene	1.1750 1.2912	1.2315	1.1543	1.2375	1.2458	Ave		1.2226				4.1		15.0			
Trichloroethene	0.2598 0.2637	0.2642	0.2519	0.2667	0.2624	Ave		0.2614				2.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

Sample Calculation

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica North Canton | Job No.: 240-948-1
SDG No.:
Client Sample ID: MSA-SW42C-060811 | Lab Sample ID: 240-948-25
Matrix: Water | Lab File ID: 0707110.D
Analysis Method: 8270C | Date Collected: 06/08/2011 12:10
Extract. Method: 3520C | Date Extracted: 06/11/2011 08:43
Sample wt/vol: 1030(mL) | Date Analyzed: 07/07/2011 10:17
Con. Extract Vol.: 2(mL) | Dilution Factor: 4
Injection Volume: 1(uL) | Level: (low/med) Low
% Moisture: | GPC Cleanup:(Y/N) N
Analysis Batch No.: 7441 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
117-81-7	Bis(2-ethylhexyl) phthalate	160	B	7.8	3.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
1718-51-0	Terphenyl-d14 (Surr)	65		37-119
4165-62-2	Phenol-d5 (Surr)	46		10-110
4165-60-0	Nitrobenzene-d5 (Surr)	45		27-111
367-12-4	2-Fluorophenol (Surr)	49		10-110
321-60-8	2-Fluorobiphenyl (Surr)	54		28-110
118-79-6	2,4,6-Tribromophenol (Surr)	63		22-120

Sample Calculation

Report Date: 09-Jul-2011 08:46:21 Chrom Revision: 1.2 30-Jun-2011 15:02:28

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A4AG2\20110707-1675.b\0707110.D
Lims ID: 240-948-G-25-A Client ID: MSA-SW42C-060811
Inject. Date: 07-Jul-2011 10:17:30 Dil. Factor: 4.0000
Sample Type: Client
Sample ID: 240-0001675-012
Misc. Info.: 240-948-G-25-A =240-948-G-25-A
Operator: Instrument ID: A4AG2
Vol. Injected: 1.0000 ALS Bottle#: 10
Lims Batch ID: 7441 Lims Sample ID: 12
Detector: MS SCAN

Method: \\Ncchrom\ChromData\A4AG2\20110707-1675.b\8270 ag2.m
Last Update: 09-Jul-2011 08:46:15 Calib Date: 30-Jun-2011 19:16:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A4AG2\20110630-1529.b\0630121.D
Limit Group: MSS 8270C ICAL
Integrator: RTE ID Type: Deconvolution ID
Process Host: CORP-CTX-18

First Level Reviewer: hulat Date: 08-Jul-2011 12:43:45

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.371	3.377	-0.006	94	383715	4.00	
* 2 Naphthalene-d8	136	4.264	4.270	-0.006	99	1518854	4.00	
* 3 Acenaphthene-d10	164	5.537	5.537	0.0	93	862898	4.00	
* 4 Phenanthrene-d10	188	6.623	6.629	-0.006	98	1358845	4.00	
* 5 Chrysene-d12	240	8.575	8.586	-0.011	96	1262696	4.00	
* 6 Perylene-d12	264	9.854	9.865	-0.011	95	1134708	4.00	
$ 7 2-Fluorophenol	112	2.510	2.515	-0.005	90	221220	1.84	
$ 8 Phenol-d5	99	3.098	3.104	-0.006	94	269224	1.73	
$ 9 Nitrobenzene-d5	82	3.751	3.756	-0.005	83	163856	1.13	
$ 10 2-Fluorobiphenyl (Surr)	172	5.029	5.029	0.0	98	362199	1.36	
$ 11 2,4,6-Tribromophenol	330	6.115	6.115	0.0	74	49234	2.38	
$ 12 Terphenyl-d14	244	7.773	7.773	0.0	96	359822	1.62	
26 1,4-Dioxane	88		1.569					
27 N-Nitrosodimethylamine	74		1.735					
42 Benzaldehyde	77		3.082					
43 Phenol	94	3.104	3.109	-0.005	92	35200	0.2127	
45 Bis(2-chloroethyl)ether	93		3.173					
47 2-Chlorophenol	128		3.238					
52 2-Methylphenol	108		3.521					
54 2,2'-oxybis[1-chloropropane]	45		3.537					
55 3 & 4 Methylphenol	108		3.628					
57 N-Nitrosodi-n-propylamine	70		3.633					
58 Acetophenone	105		3.644					
61 Hexachloroethane	117		3.735					
62 Nitrobenzene	77		3.767					
64 Isophorone	82		3.928					
65 2-Nitrophenol	139		3.992					
66 2,4-Dimethylphenol	107		3.997					
69 Bis(2-chloroethoxy)methane	93		4.061					
72 2,4-Dichlorophenol	162		4.163					
74 Naphthalene	128		4.286					

Sample Calculation

Report Date: 09-Jul-2011 08:46:21 Chrom Revision: 1.2 30-Jun-2011 15:02:28
Data File: \\Ncchrom\ChromData\A4AG2\20110707-1675.b\0707110.D

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ng/ul	Flags
75 4-Chloroaniline	127		4.307					
78 Hexachlorobutadiene	225		4.366					
83 Caprolactam	113		4.564					
85 4-Chloro-3-methylphenol	107		4.650					
86 2-Methylnaphthalene	142		4.778					
89 Hexachlorocyclopentadiene	237		4.890					
93 2,4,6-Trichlorophenol	196		4.976					
94 2,4,5-Trichlorophenol	196		5.008					
99 1,1'-Biphenyl	154		5.110					
100 2-Chloronaphthalene	162		5.131					
101 2-Nitroaniline	65		5.195					
104 Dimethyl phthalate	163		5.307					
106 2,6-Dinitrotoluene	165		5.361					
108 Acenaphthylene	152		5.436					
109 3-Nitroaniline	138		5.495					
111 Acenaphthene	153		5.564					
110 2,4-Dinitrophenol	184		5.570					
112 4-Nitrophenol	109		5.612					
113 2,4-Dinitrotoluene	165		5.660					
115 Dibenzofuran	168		5.687					
120 Diethyl phthalate	149		5.816					
122 4-Chlorophenyl phenyl ether	204		5.917					
124 Fluorene	166		5.939					
125 4-Nitroaniline	138		5.944					
127 4,6-Dinitro-2-methylphenol	198		5.960					
128 N-Nitrosodiphenylamine	169		6.003					
138 4-Bromophenyl phenyl ether	248		6.281					
140 Hexachlorobenzene	284		6.350					
141 Atrazine	200		6.377					
143 Pentachlorophenol	266		6.484					
148 Phenanthrene	178		6.645					
149 Anthracene	178		6.682					
150 Carbazole	167		6.789					
154 Di-n-butyl phthalate	149		7.003					
159 Fluoranthene	202		7.522					
161 Pyrene	202		7.693					
169 Butyl benzyl phthalate	149	8.105	8.110	-0.005	96	603211	2.71	
174 Bis(2-ethylhexyl) phthalate	149	8.511	8.517	-0.006	93	6331089	20.8	
177 3,3'-Dichlorobenzidine	252		8.538					
178 Benzo[a]anthracene	228		8.576					
179 Chrysene	228		8.608					
181 Di-n-octyl phthalate	149		9.009					
183 Benzo[b]fluoranthene	252		9.474					
184 Benzo[k]fluoranthene	252		9.501					
185 Benzo[a]pyrene	252		9.811					
190 Indeno[1,2,3-cd]pyrene	276		11.250					
189 Dibenz(a,h)anthracene	278		11.255					
191 Benzo[g,h,i]perylene	276		11.667					

Sample Calculation

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica North Canton Job No.: 240-948-1 Analy Batch No.: 6758

SDG No.:

Instrument ID: A4AG2 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/30/2011 13:59 Calibration End Date: 06/30/2011 16:13 Calibration ID: 1920

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Di-n-butyl phthalate		1.4190	1.4457	1.5202	1.5005	Ave		1.3370				13.0		15.0			
	1.4112	1.2213	1.1095	1.0687													
Fluoranthene	1.1850	1.0813	1.1004	1.1332	1.1156	Ave		1.0880				5.4		15.0			
	1.0846	1.0818	1.0350	0.9751													
Benzidine		0.4321	0.4815	0.6549	0.7858	Qua	-0.232	0.8016	0.0029						0.9990		0.9900
	0.8184	0.8410	0.8258	0.8733													
Pyrene	1.5454	1.3077	1.3357	1.3276	1.3073	Ave		1.3088				8.0		15.0			
	1.2611	1.2801	1.2653	1.1491													
Butyl benzyl phthalate		0.6582	0.6961	0.7971	0.7124	Ave		0.7039				5.8		15.0			
	0.6887	0.6925	0.6819	0.7043													
3,3'-Dimethoxybenzidine		0.1490	0.1706	0.2143	0.2331	Qua	-0.003	0.2232	0.0015						0.9930		0.9900
	0.2771	0.2250	0.2473	0.2655													
Bis(2-ethylhexyl) phthalate		0.9707	0.9973	1.0322	1.0124	Ave		0.9620				6.4		15.0			
	0.9657	0.9674	0.9112	0.8388													
4,4'-Methylene bis(2-chloroaniline)		0.1670	0.1809	0.1985	0.2060	Ave		0.1991				8.5		15.0			
	0.2075	0.2105	0.2046	0.2181													
3,3'-Dichlorobenzidine		0.3621	0.3902	0.4030	0.4175	Ave		0.4104				6.1		15.0			
	0.4187	0.4238	0.4232	0.4443													
Benzo[a]anthracene	1.3235	1.0720	1.0799	1.1154	1.0854	Ave		1.1231				7.1		15.0			
	1.0824	1.0947	1.0902	1.1646													
Chrysene	1.2744	1.0703	1.0542	1.0650	1.0379	Ave		1.0824				6.8		15.0			
	1.0329	1.0584	1.0648	1.0834													
Di-n-octyl phthalate		1.6414	1.7861	1.9305	1.9529	Ave		1.8140				7.6		15.0			
	1.9440	1.9001	1.7448	1.6120													
Benzo[b]fluoranthene	1.2569	1.0797	1.1482	1.1852	1.2295	Ave		1.2236				8.8		15.0			
	1.1924	1.2152	1.2316	1.4738													
Benzo[k]fluoranthene	1.4899	1.2663	1.2322	1.2673	1.2359	Ave		1.2947				6.3		15.0			
	1.3143	1.2862	1.3343	1.2256													
Benzo[a]pyrene	1.2068	1.0777	1.0965	1.1217	1.1341	Ave		1.1505				4.4		15.0			
	1.1417	1.1680	1.1692	1.2384													
Indeno[1,2,3-cd]pyrene	1.2972	1.1551	1.1877	1.2639	1.2727	Ave		1.2744				5.1		15.0			
	1.2922	1.3235	1.3319	1.3453													
Dibenzo(a,h)anthracene	1.0230	0.9339	0.9824	1.0463	1.0815	Ave		1.0702				7.7		15.0			
	1.0973	1.1314	1.1370	1.1986													
Benzo[g,h,i]perylene	0.8928	0.9523	0.9678	1.0259	1.0157	Ave		1.0208				7.5		15.0			
	1.0368	1.0629	1.0810	1.1522													
2-Fluorophenol (Surr)		1.2009	1.2778	1.2908	1.2681	Ave		1.2521				2.8		15.0			
	1.2720	1.2385	1.2013	1.2671													
Phenol-d5 (Surr)		1.6006	1.5970	1.7221	1.6763	Ave		1.6236				3.2		15.0			
	1.6161	1.5967	1.5532	1.6263													

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

Sample Calculation

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica North Canton Job No.: 240-948-1

SDG No.:

Batch Number: 4415 Batch Start Date: 06/11/11 10:30 Batch Analyst: Earle, Steve

Batch Method: 3520C Batch End Date: 06/12/11 04:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	EXBNALCS1 00003	EXBNASURRW 00002
240-948-G-11	MSA-SW41A-060811	3520C, 8270C	T	1050 mL	2 mL	7	2		1 mL
240-948-G-12	MSA-SW41B-060811	3520C, 8270C	T	1040 mL	2 mL	7	2		1 mL
240-948-G-13	MSA-SW41C-060811	3520C, 8270C	T	1040 mL	2 mL	7	2		1 mL
240-948-G-14	MSA-SW38A-060811	3520C, 8270C	T	1040 mL	2 mL	7	2		1 mL
240-948-G-15	MSA-SW38B-060811	3520C, 8270C	T	1040 mL	2 mL	7	2		1 mL
240-948-G-16	MSA-SW38C-060811	3520C, 8270C	T	1050 mL	2 mL	7	2		1 mL
240-948-H-17	MSA-SW43A-060811	3520C, 8270C	T	1050 mL	2 mL	7	2		1 mL
240-948-H-18	MSA-SW43B-060811	3520C, 8270C	T	1040 mL	2 mL	7	2		1 mL
240-948-G-19	MSA-SW43C-060811	3520C, 8270C	T	1040 mL	2 mL	7	2		1 mL
240-948-G-20	MSA-SW40A-060811	3520C, 8270C	T	1050 mL	2 mL	7	2		1 mL
240-948-H-21	MSA-SW40B-060811	3520C, 8270C	T	1050 mL	2 mL	7	2		1 mL
240-948-H-22	MSA-SW40C-060811	3520C, 8270C	T	1050 mL	2 mL	7	2		1 mL
240-948-G-23	MSA-SW42A-060811	3520C, 8270C	T	1050 mL	2 mL	7	2		1 mL
240-948-G-24	MSA-SW42B-060811	3520C, 8270C	T	1040 mL	2 mL	7	2		1 mL
240-948-G-25	MSA-SW42C-060811	3520C, 8270C	T	1030 mL	2 mL	7	2		1 mL
240-948-G-26	MSA-SW37A-060811	3520C, 8270C	T	1050 mL	2 mL	7	2		1 mL
240-948-G-27	MSA-SW37B-060811	3520C, 8270C	T	1050 mL	2 mL	7	2		1 mL
240-948-G-28	MSA-SW37C-060811	3520C, 8270C	T	1050 mL	2 mL	7	2		1 mL
MB 240-4415/21		3520C, 8270C		1000 mL	2 mL	7	2		1 mL
LCS 240-4415/22		3520C, 8270C		1000 mL	2 mL	7	2	1 mL	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXRESTEKSPKW 00002
240-948-G-11	MSA-SW41A-060811	3520C, 8270C	T	
240-948-G-12	MSA-SW41B-060811	3520C, 8270C	T	
240-948-G-13	MSA-SW41C-060811	3520C, 8270C	T	
240-948-G-14	MSA-SW38A-060811	3520C, 8270C	T	
240-948-G-15	MSA-SW38B-060811	3520C, 8270C	T	
240-948-G-16	MSA-SW38C-060811	3520C, 8270C	T	
240-948-H-17	MSA-SW43A-060811	3520C, 8270C	T	
240-948-H-18	MSA-SW43B-060811	3520C, 8270C	T	
240-948-G-19	MSA-SW43C-060811	3520C, 8270C	T	

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **T. APANAVAGE** **DATE:** **July 18th, 2011**

FROM: **MEGAN CARSON** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION-SELECT METALS AND PERCHLORATE**
MARTIN STATE AIRPORT
SDG 240-948-1

SAMPLES: 27/Waters/

MSA-SW37A-060811	MSA-SW37B-060811
MSA-SW37C-060811	MSA-SW38A-060811
MSA-SW38B-060811	MSA-SW38C-060811
MSA-SW39A-060811	MSA-SW39B-060811
MSA-SW39C-060811	MSA-SW40A-060811
MSA-SW40B-060811	MSA-SW40C-060811
MSA-SW41A-060811	MSA-SW41B-060811
MSA-SW41C-060811	MSA-SW42A-060811
MSA-SW42B-060811	MSA-SW42C-060811
MSA-SW43A-060811	MSA-SW43B-060811
MSA-SW43C-060811	MSA-SW44A-060811
MSA-SW44B-060811	MSA-SW44C-060811
MSA-SW45A-060811	MSA-SW45B-060811
MSA-SW45C-060811	

\Overview

The sample set for Martin State Airport, SDG 240-948-1, consists of twenty seven (27) soil environmental samples. This SDG contained no field duplicate pairs.

All samples were analyzed for select metals: antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, tungsten, vanadium, and zinc. The samples were collected by Tetra Tech NUS on June 8th, 2011 and analyzed by Test America. Metals analyses were conducted using SW-846 method 6020. Mercury analyses were conducted using SW-846 method 7470A. Perchlorate analyses were conducted using EPA method 314.0.

The findings offered in this report are based upon a general review of all available data. The data review was based on data completeness, holding times, initial and continuing calibration verification results, laboratory method / preparation blank results, ICP interference results, laboratory control sample recoveries, matrix spike recoveries, laboratory duplicate results, internal standard recoveries, detection limits and analyte quantitation.

Areas of concern with respect to data quality are listed below.

Major Problems – None.

Minor Problems-

- The following contaminants were detected in preparation blanks at the following maximum concentrations:

Analyte	Maximum Concentration	Action Level
Copper [1]	0.146 ug/L	0.73 ug/L
Lead [1]	0.187 ug/L	0.93 ug/L
Thallium [1]	0.23 ug/L	1.16 ug/L
Tungsten [1]	0.23 ug/L	1.15 ug/L
Chromium [2]	0.292 ug/L	1.46 ug/L
Lead [2]	0.087 ug/L	0.43 ug/L
Thallium [2]	0.213 ug/L	1.06 ug/L
Zinc [2]	0.719 ug/L	3.59 ug/L
Antimony [3]	0.137 ug/L	0.69 ug/L
Copper [3]	0.146 ug/L	0.73 ug/L
Cobalt [3]	0.129 ug/L	0.64 ug/L
Lead [3]	0.20 ug/L	1.0 ug/L
Molybdenum [3]	0.79 ug/L	3.95 ug/L
Thallium [3]	0.25 ug/L	1.25 ug/L
Tungsten [3]	0.24 ug/L	1.22 ug/L
Antimony [4]	0.13 ug/L	0.65 ug/L
Barium [4]	0.55 ug/L	2.75 ug/L
Chromium [4]	0.154 ug/L	0.77 ug/L
Cobalt [4]	0.304 ug/L	1.52 ug/L
Lead [4]	0.217 ug/L	1.08 ug/L
Molybdenum [4]	0.774 ug/L	3.87 ug/L
Thallium [4]	0.303 ug/L	1.51 ug/L
Tungsten [4]	0.276 ug/L	1.38 ug/L

[1] Maximum concentration found in a preparation blank affecting samples in preparation batch 200-20577 (total metals).
[2] Maximum concentration found in a preparation blank affecting samples in preparation batch 200-20579 (total metals).
[3] Maximum concentration found in a preparation blank affecting samples in preparation batch 200-20283 (dissolved metals).
[4] Maximum concentration found in a preparation blank affecting samples in preparation batch 200-20593 (dissolved metals).

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action level reported for were qualified "B" as a result of laboratory blank contamination.

- The following contaminant was detected in calibration blank at the following maximum concentration:

Analyte	Maximum Concentration	Action Level
Selenium [1]	0.392 ug/L	1.96 ug/L
Antimony [2]	0.479 ug/L	2.39 ug/L
Cobalt [2]	0.188 ug/L	0.94 ug/L
Molybdenum [2]	1.53 ug/L	7.65 ug/L
Tungsten [2]	0.345 ug/L	1.72 ug/L
Antimony [3]	0.122 ug/L	0.61 ug/L
Cobalt [3]	0.197 ug/L	0.98 ug/L
Molybdenum [3]	1.07 ug/L	5.35 ug/L
Tungsten [3]	0.18 ug/L	0.9 ug/L

[1] Maximum concentration found in a calibration blank affecting dissolved samples MSA-SW38A-060811, MSA-SW38B-060811, MSA-SW38C-060811, MSA-SW39A-060811, MSA-SW39B-060811, MSA-SW39C-060811, MSA-SW40A-060811, MSA-SW41A-060811, MSA-SW41B-060811, MSA-SW41C-060811, MSA-SW43A-060811, MSA-SW43B-060811, MSA-SW43C-060811, MSA-SW44A-060811, MSA-SW44B-060811, MSA-SW44C-060811, MSA-SW45A-060811, MSA-SW45B-060811, and MSA-SW45C-060811.

[2] Maximum concentration found in a calibration blank affecting total samples MSA-SW37A-060811, MSA-SW38A-060811, MSA-SW38B-060811, MSA-SW38C-060811, MSA-SW39A-060811, MSA-SW39B-060811, MSA-SW39C-060811, MSA-SW40A-060811, MSA-SW40B-060811, MSA-SW40C-060811, MSA-SW41A-060811, MSA-SW41B-060811, MSA-SW41C-060811, MSA-SW42A-060811, MSA-SW42B-060811, MSA-SW42C-060811, MSA-SW43A-060811, MSA-SW43B-060811, MSA-SW43C-060811, MSA-SW44A-060811, MSA-SW44B-060811, MSA-SW44C-060811, MSA-SW45A-060811, MSA-SW45B-060811, and MSA-SW45C-060811.

[3] Maximum concentration found in a calibration blank affecting total samples MSA-SW37B-060811 and MSA-SW37C-060811.

An action level of 5X the maximum contaminant level has been used to evaluate sample data for blank contamination. Sample aliquot and dilution factors, if applicable, were taken into consideration when evaluating for blank contamination. Positive results less than the blank action level reported for were qualified "B" as a result of laboratory blank contamination.

- The serial dilution for preparation batch 200-20577 had a percent difference > 10% for lead. Samples in preparation batch 200-20577 were affected. Positive results were qualified as estimated (J).

- The serial dilution for preparation batch 200-20579 had a percent difference > 10% for lead. Samples in preparation batch 200-20579 were affected. Positive results were qualified as estimated (J).

- Positive results greater than the method detection limit but less than the reporting limit were qualified as estimated (J).

Notes

The laboratory control spike and laboratory control spike duplicate had a percent recovery > 115% for perchlorate. Samples in preparation batch 1174077 were affected. No validation action was taken as samples results were non-detected.

Executive Summary

Laboratory Performance: Calibration and preparation blank contamination resulted in the qualification of sample results. Serial dilution non-compliances for lead resulted in the qualification of sample results.

Other Factors Affecting Data Quality: None.

The data for these analyses were reviewed with reference to Region III modifications to the "National Functional Guidelines for Inorganic Data Validation", April 1993. The text of this report has been formulated to address only those problem areas affecting data quality.

Megan Carson

Tetra Tech NUS
Megan Carson
Chemist/Data Validator

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

APPENDIX A

QUALIFIED ANALYTICAL RESULTS

Data Validation Qualifier Codes:

A	=	Lab Blank Contamination
B	=	Field Blank Contamination
C	=	Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01	=	GC/MS Tuning Noncompliance
D	=	MS/MSD Recovery Noncompliance
E	=	LCS/LCSD Recovery Noncompliance
F	=	Lab Duplicate Imprecision
G	=	Field Duplicate Imprecision
H	=	Holding Time Exceedance
I	=	ICP Serial Dilution Noncompliance
J	=	GFAA PDS - GFAA MSA's $r < 0.995$
K	=	ICP Interference - includes ICS % R Noncompliance
L	=	Instrument Calibration Range Exceedance
M	=	Sample Preservation Noncompliance
N	=	Internal Standard Noncompliance
N01	=	Internal Standard Recovery Noncompliance Dioxins
N02	=	Recovery Standard Noncompliance Dioxins
N03	=	Clean-up Standard Noncompliance Dioxins
O	=	Poor Instrument Performance (e.g. base-line drifting)
P	=	Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q	=	Other problems (can be any number of issues; e.g. poor chromatography,interferences, etc.)
R	=	Surrogates Recovery Noncompliance
S	=	Pesticide/PCB Resolution
T	=	% Breakdown Noncompliance for DDT and Endrin
U	=	% Difference between columns/detectors >25% for positive results determined via GC/HPLC
V	=	Non-linear calibrations; correlation coefficient $r < 0.995$
W	=	EMPC result
X	=	Signal to noise response drop
Y	=	Percent solids <30%
Z	=	Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: C03292	NSAMPLE	MSA-SW37A-060811			MSA-SW37B-060811			MSA-SW37C-060811			MSA-SW38A-060811		
SDG: 240-948-1	LAB_ID	240-948-26			240-948-27			240-948-28			240-948-14		
FRACTION: M	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.29	B	A	0.14	B	A	0.1	B	A	0.28	B	A
ARSENIC		1.9	J	P	2	J	P	2	J	P	2	J	P
BARIUM		9.2			9.3			9.3			9.2		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		0.97	B	A	1.2	B	A	1.3	B	A	1.5	J	P
COBALT		0.52	B	A	0.6	B	A	0.61	B	A	0.65	B	A
COPPER		5.4			5.8			6.1			6.7		
LEAD		1.4	J	I	1.5	J	I	1.5	J	I	1.7	J	I
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.6	B	A	2.2	B	A	1.8	B	A	1.6	B	A
NICKEL		0.81	J	P	1	J	P	1.1	J	P	1.2	J	P
SELENIUM		0.75	J	P	0.95	J	P	0.78	J	P	0.56	J	P
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.22	B	A	0.25	B	A	0.24	B	A	0.22	B	A
TUNGSTEN		0.23	B	A	0.27	B	A	0.19	B	A	0.25	B	A
VANADIUM		2.6	J	P	2.6	J	P	2.6	J	P	2.6	J	P
ZINC		2.8	B	A	3.6	J	P	4.4	J	P	5.6	J	P

PROJ_NO: C03292	NSAMPLE	MSA-SW38B-060811			MSA-SW38C-060811			MSA-SW39A-060811			MSA-SW39B-060811		
SDG: 240-948-1	LAB_ID	240-948-15			240-948-16			240-948-2			240-948-3		
FRACTION: M	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.28	B	A	0.27	B	A	0.29	B	A	0.29	B	A
ARSENIC		1.9	J	P	1.9	J	P	1.7	J	P	1.6	J	P
BARIUM		9.3			9			10			9.6		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		1	J	P	1.1	J	P	1.8	J	P	1.5	J	P
COBALT		0.55	B	A	0.58	B	A	1.1			0.75	B	A
COPPER		5.6			5.9			7.1			5.2		
LEAD		1.4	J	I	1.5	J	I	2.5	J	I	1.7	J	I
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.6	B	A	1.6	B	A	2	B	A	1.7	B	A
NICKEL		0.87	J	P	0.92	J	P	1.8	J	P	1.3	J	P
SELENIUM		0.53	J	P	0.62	J	P	0.54	J	P	0.62	J	P
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.22	B	A	0.22	B	A	0.29	B	A	0.24	B	A
TUNGSTEN		0.24	B	A	0.24	B	A	0.44	B	A	0.37	B	A
VANADIUM		2.8	J	P	2.6	J	P	3.5	J	P	3	J	P
ZINC		3.8	J	P	3.2	J	P	9.2	J	P	5.4	J	P

PROJ_NO: C03292 SDG: 240-948-1 FRACTION: M MEDIA: WATER	NSAMPLE	MSA-SW39C-060811			MSA-SW40A-060811			MSA-SW40B-060811			MSA-SW40C-060811		
	LAB_ID	240-948-4			240-948-20			240-948-21			240-948-22		
	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.26	B	A	0.29	B	A	0.3	B	A	0.28	B	A
ARSENIC		1.5	J	P	1.8	J	P	2	J	P	1.9	J	P
BARIUM		8.5			8.9			9.3			8.9		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		1.2	J	P	1.2	J	P	1.1	B	A	1.1	B	A
COBALT		0.62	B	A	0.55	B	A	0.62	B	A	0.55	B	A
COPPER		4.5			5.8			5.9			5.8		
LEAD		1.3	J	I	1.4	J	I	1.5	J	I	1.4	J	I
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.6	B	A	1.7	B	A	2.1	B	A	1.7	B	A
NICKEL		1	J	P	0.77	J	P	2.8			0.95	J	P
SELENIUM		0.45	J	P	0.35	J	P	0.58	J	P	0.9	J	P
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.23	B	A	0.22	B	A	0.3	B	A	0.24	B	A
TUNGSTEN		0.31	B	A	0.27	B	A	0.36	B	A	0.27	B	A
VANADIUM		2.5	J	P	2.6	J	P	2.5	J	P	2.7	J	P
ZINC		6	J	P	2.8	J	P	3.6	J	P	3.6	J	P

PROJ_NO: C03292 SDG: 240-948-1 FRACTION: M MEDIA: WATER	NSAMPLE	MSA-SW41A-060811			MSA-SW41B-060811			MSA-SW41C-060811			MSA-SW42A-060811		
	LAB_ID	240-948-11			240-948-12			240-948-13			240-948-23		
	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.29	B	A	0.27	B	A	0.27	B	A	0.29	B	A
ARSENIC		1.9	J	P	1.9	J	P	1.8	J	P	1.8	J	P
BARIUM		9			8.7			8.9			9.2		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		1.1	J	P	1.1	J	P	1.4	J	P	1.1	B	A
COBALT		0.63	B	A	0.56	B	A	0.63	B	A	0.57	B	A
COPPER		5.9			5.7			6.1			5.8		
LEAD		1.6	J	I	1.4	J	I	1.6	J	I	1.5	J	I
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.6	B	A	1.6	B	A	1.5	B	A	1.7	B	A
NICKEL		0.95	J	P	1	J	P	1.1	J	P	0.83	J	P
SELENIUM		0.61	J	P	0.5	J	P	0.51	J	P	0.32	U	
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.22	B	A	0.22	B	A	0.22	B	A	0.23	B	A
TUNGSTEN		0.27	B	A	0.26	B	A	0.26	B	A	0.26	B	A
VANADIUM		2.7	J	P	2.7	J	P	2.8	J	P	2.6	J	P
ZINC		5.4	J	P	3.2	J	P	5.5	J	P	4.2	J	P

PROJ_NO: C03292	NSAMPLE	MSA-SW42B-060811			MSA-SW42C-060811			MSA-SW43A-060811			MSA-SW43B-060811		
SDG: 240-948-1	LAB_ID	240-948-24			240-948-25			240-948-17			240-948-18		
FRACTION: M	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.29	B	A	0.28	B	A	0.27	B	A	0.27	B	A
ARSENIC		2	J	P	1.8	J	P	1.9	J	P	1.7	J	P
BARIUM		9.3			9.2			9			8.8		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		1.3	B	A	1.2	B	A	1.3	J	P	1.1	J	P
COBALT		0.58	B	A	0.58	B	A	0.66	B	A	0.57	B	A
COPPER		6.1			6.1			5.8			5.9		
LEAD		1.6	J	I	1.5	J	I	1.6	J	I	1.5	J	I
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.7	B	A	1.6	B	A	1.5	B	A	1.5	B	A
NICKEL		0.94	J	P	0.96	J	P	1.1	J	P	0.89	J	P
SELENIUM		0.64	J	P	0.32	U		0.73	J	P	0.32	U	
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.23	B	A	0.22	B	A	0.22	B	A	0.22	B	A
TUNGSTEN		0.25	B	A	0.25	B	A	0.25	B	A	0.24	B	A
VANADIUM		2.8	J	P	2.6	J	P	2.6	J	P	2.6	J	P
ZINC		3.5	B	A	4.4	J	P	3.7	J	P	4.4	J	P

PROJ_NO: C03292	NSAMPLE	MSA-SW43C-060811			MSA-SW44A-060811			MSA-SW44B-060811			MSA-SW44C-060811		
SDG: 240-948-1	LAB_ID	240-948-19			240-948-8			240-948-9			240-948-10		
FRACTION: M	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.29	B	A	0.31	B	A	0.27	B	A	0.28	B	A
ARSENIC		1.9	J	P	2	J	P	1.9	J	P	1.9	J	P
BARIUM		9.7			10			9.2			9.5		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		1.5	J	P	2.1			1.4	J	P	1.3	J	P
COBALT		0.72	B	A	0.92	B	A	0.69	B	A	0.69	B	A
COPPER		6.7			8.1			6.5			6.1		
LEAD		1.9	J	I	2.6	J	I	1.8	J	I	1.8	J	I
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.6	B	A	1.6	B	A	1.5	B	A	1.7	B	A
NICKEL		1.1	J	P	1.5	J	P	1.2	J	P	1.2	J	P
SELENIUM		0.41	J	P	0.41	J	P	0.63	J	P	0.49	J	P
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.22	B	A	0.23	B	A	0.22	B	A	0.23	B	A
TUNGSTEN		0.25	B	A	0.28	B	A	0.28	B	A	0.3	B	A
VANADIUM		2.9	J	P	3.5	J	P	3	J	P	3.1	J	P
ZINC		5	J	P	9.3	J	P	5.5	J	P	5.2	J	P

PROJ_NO: C03292	NSAMPLE	MSA-SW45A-060811			MSA-SW45B-060811			MSA-SW45C-060811		
SDG: 240-948-1	LAB_ID	240-948-5			240-948-6			240-948-7		
FRACTION: M	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.29	B	A	0.28	B	A	0.27	B	A
ARSENIC		1.8	J	P	1.8	J	P	2	J	P
BARIUM		9.7			9.6			9.5		
BERYLLIUM		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U	
CHROMIUM		1.5	J	P	1.4	J	P	1.4	J	P
COBALT		0.74	B	A	0.75	B	A	0.74	B	A
COPPER		6.5			5.9			5.8		
LEAD		2	J	I	1.9	J	I	1.8	J	I
MERCURY		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.6	B	A	1.6	B	A	1.6	B	A
NICKEL		1.3	J	P	1.3	J	P	1.3	J	P
SELENIUM		0.75	J	P	0.56	J	P	1	J	P
SILVER		0.014	U		0.014	U		0.014	U	
THALLIUM		0.23	B	A	0.23	B	A	0.23	B	A
TUNGSTEN		0.3	B	A	0.3	B	A	0.29	B	A
VANADIUM		2.7	J	P	3.1	J	P	2.8	J	P
ZINC		6.4	J	P	6	J	P	8.4	J	P

PROJ_NO: C03292	NSAMPLE	MSA-SW37A-060811			MSA-SW37B-060811			MSA-SW37C-060811			MSA-SW38A-060811		
SDG: 240-948-1	LAB_ID	240-948-26			240-948-27			240-948-28			240-948-14		
FRACTION: MF	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.34	B	A	0.34	B	A	0.32	B	A	0.34	B	A
ARSENIC		1.4	J	P	1.5	J	P	1.4	J	P	1.5	J	P
BARIUM		7.9			7.5			7.3			7.5		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		0.4	B	A	0.95	B	A	0.41	B	A	0.39	J	P
COBALT		0.32	B	A	0.33	B	A	0.32	B	A	0.21	B	A
COPPER		3.8			3.8			3.8			3.6		
LEAD		0.31	B	A	0.31	B	A	0.3	B	A	0.3	B	A
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.7	B	A	1.7	B	A	1.7	B	A	1.5	B	A
NICKEL		0.78	J	P	0.73	J	P	0.85	J	P	0.71	J	P
SELENIUM		0.32	U		0.32	U		0.32	U		0.61	B	A
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.23	B	A	0.23	B	A	0.23	B	A	0.24	B	A
TUNGSTEN		0.26	B	A	0.26	B	A	0.27	B	A	0.22	B	A
VANADIUM		1.6	J	P	1.7	J	P	1.6	J	P	1.4	J	P
ZINC		0.5	U		0.66	J	P	1.7	J	P	0.5	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW38B-060811			MSA-SW38C-060811			MSA-SW39A-060811			MSA-SW39B-060811		
SDG: 240-948-1	LAB_ID	240-948-15			240-948-16			240-948-2			240-948-3		
FRACTION: MF	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.34	B	A	0.33	B	A	0.31	B	A	0.32	B	A
ARSENIC		1.7	J	P	1.7	J	P	1.2	J	P	1.3	J	P
BARIUM		7.4			7.2			7.2			7.5		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		0.43	J	P	0.44	J	P	0.32	J	P	0.42	J	P
COBALT		0.21	B	A	0.21	B	A	0.21	B	A	0.23	B	A
COPPER		3.7			3.8			3			3.1		
LEAD		0.33	B	A	0.3	B	A	0.32	B	A	0.35	B	A
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.5	B	A	1.5	B	A	1.7	B	A	1.6	B	A
NICKEL		0.7	J	P	0.68	J	P	0.79	J	P	0.89	J	P
SELENIUM		0.94	B	A	0.95	B	A	0.32	U		0.37	B	A
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.24	B	A	0.24	B	A	0.26	B	A	0.25	B	A
TUNGSTEN		0.23	B	A	0.24	B	A	0.34	B	A	0.3	B	A
VANADIUM		1.6	J	P	1.6	J	P	1.5	J	P	1.6	J	P
ZINC		0.5	U		0.5	U		4	J	P	0.5	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW39C-060811			MSA-SW40A-060811			MSA-SW40B-060811			MSA-SW40C-060811		
SDG: 240-948-1	LAB_ID	240-948-4			240-948-20			240-948-21			240-948-22		
FRACTION: MF	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.31	B	A	0.35	B	A	0.34	B	A	0.35	B	A
ARSENIC		1.4	J	P	1.6	J	P	1.1	J	P	1.3	J	P
BARIUM		6.8			7.4			7.6			7.8		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		0.72	J	P	0.41	J	P	0.31	B	A	0.36	B	A
COBALT		0.21	B	A	0.21	B	A	0.33	B	A	0.33	B	A
COPPER		3			3.8			3.9			4.1		
LEAD		0.29	B	A	0.3	B	A	0.31	B	A	0.31	B	A
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.6	B	A	1.6	B	A	1.9	B	A	1.8	B	A
NICKEL		0.94	J	P	0.75	J	P	0.68	J	P	0.78	J	P
SELENIUM		0.52	B	A	0.84	B	A	0.32	U		0.32	U	
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.25	B	A	0.24	B	A	0.25	B	A	0.24	B	A
TUNGSTEN		0.29	B	A	0.24	B	A	0.34	B	A	0.32	B	A
VANADIUM		1.7	J	P	1.6	J	P	1.6	J	P	1.7	J	P
ZINC		2	J	P	0.5	U		0.67	J	P	0.69	J	P

PROJ_NO: C03292	NSAMPLE	MSA-SW41A-060811			MSA-SW41B-060811			MSA-SW41C-060811			MSA-SW42A-060811		
SDG: 240-948-1	LAB_ID	240-948-11			240-948-12			240-948-13			240-948-23		
FRACTION: MF	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.34	B	A	0.33	B	A	0.32	B	A	0.34	B	A
ARSENIC		1.6	J	P	1.5	J	P	1.4	J	P	1.3	J	P
BARIUM		7.5			7			7			7.5		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		0.39	J	P	0.34	J	P	0.42	J	P	0.35	B	A
COBALT		0.21	B	A	0.2	B	A	0.2	B	A	0.32	B	A
COPPER		3.9			3.8			3.8			3.9		
LEAD		0.3	B	A	0.3	B	A	0.3	B	A	0.3	B	A
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.7	B	A	1.6	B	A	1.5	B	A	1.8	B	A
NICKEL		1	J	P	0.74	J	P	0.77	J	P	0.76	J	P
SELENIUM		0.71	B	A	0.73	B	A	0.51	B	A	0.32	U	
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.24	B	A	0.24	B	A	0.24	B	A	0.24	B	A
TUNGSTEN		0.25	B	A	0.24	B	A	0.24	B	A	0.28	B	A
VANADIUM		1.7	J	P	1.6	J	P	1.6	J	P	1.6	J	P
ZINC		0.5	U		0.5	U		0.74	J	P	0.5	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW42B-060811			MSA-SW42C-060811			MSA-SW43A-060811			MSA-SW43B-060811		
SDG: 240-948-1	LAB_ID	240-948-24			240-948-25			240-948-17			240-948-18		
FRACTION: MF	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.33	B	A	0.32	B	A	0.33	B	A	0.34	B	A
ARSENIC		1.2	J	P	1.4	J	P	1.4	J	P	1.6	J	P
BARIUM		7.4			7.4			7.2			7.3		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		0.37	B	A	0.41	B	A	0.39	J	P	0.47	J	P
COBALT		0.32	B	A	0.32	B	A	0.19	B	A	0.2	B	A
COPPER		3.7			4.1			3.7			3.9		
LEAD		0.28	B	A	0.3	B	A	0.3	B	A	0.3	B	A
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.7	B	A	1.6	B	A	1.5	B	A	1.5	B	A
NICKEL		0.71	J	P	0.75	J	P	0.79	J	P	0.94	J	P
SELENIUM		0.32	U		0.32	U		0.69	B	A	0.46	B	A
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.23	B	A	0.23	B	A	0.23	B	A	0.24	B	A
TUNGSTEN		0.27	B	A	0.26	B	A	0.22	B	A	0.23	B	A
VANADIUM		1.5	J	P	1.6	J	P	1.6	J	P	1.6	J	P
ZINC		0.5	U		0.68	J	P	0.5	U		0.5	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW43C-060811			MSA-SW44A-060811			MSA-SW44B-060811			MSA-SW44C-060811		
SDG: 240-948-1	LAB_ID	240-948-19			240-948-8			240-948-9			240-948-10		
FRACTION: MF	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.32	B	A	0.32	B	A	0.32	B	A	0.32	B	A
ARSENIC		1.5	J	P	1.4	J	P	1.4	J	P	1.5	J	P
BARIUM		7			6.7			6.7			7.3		
BERYLLIUM		0.092	U		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U		0.046	U	
CHROMIUM		0.37	J	P	0.36	J	P	0.36	J	P	0.4	J	P
COBALT		0.2	B	A	0.2	B	A	0.2	B	A	0.2	B	A
COPPER		3.7			3.7			3.6			3.7		
LEAD		0.31	B	A	0.29	B	A	0.3	B	A	0.31	B	A
MERCURY		0.066	U		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.6	B	A	1.5	B	A	1.6	B	A	1.6	B	A
NICKEL		0.74	J	P	0.71	J	P	0.75	J	P	0.84	J	P
SELENIUM		0.81	B	A	0.35	B	A	0.85	B	A	0.32	U	
SILVER		0.014	U		0.014	U		0.014	U		0.014	U	
THALLIUM		0.24	B	A	0.24	B	A	0.24	B	A	0.24	B	A
TUNGSTEN		0.25	B	A	0.23	B	A	0.27	B	A	0.27	B	A
VANADIUM		1.5	J	P	1.5	J	P	1.6	J	P	1.7	J	P
ZINC		0.5	U		0.5	U		0.5	U		4.6	J	P

PROJ_NO: C03292	NSAMPLE	MSA-SW45A-060811			MSA-SW45B-060811			MSA-SW45C-060811		
SDG: 240-948-1	LAB_ID	240-948-5			240-948-6			240-948-7		
FRACTION: MF	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
ANTIMONY		0.31	B	A	0.31	B	A	0.32	B	A
ARSENIC		1.3	J	P	1.4	J	P	1.5	J	P
BARIUM		6.8			6.7			6.8		
BERYLLIUM		0.092	U		0.092	U		0.092	U	
CADMIUM		0.046	U		0.046	U		0.046	U	
CHROMIUM		0.41	J	P	0.44	J	P	0.42	J	P
COBALT		0.2	B	A	0.2	B	A	0.2	B	A
COPPER		3.4			3.2			3.3		
LEAD		0.31	B	A	0.3	B	A	0.29	B	A
MERCURY		0.066	U		0.066	U		0.066	U	
MOLYBDENUM		1.5	B	A	1.5	B	A	1.5	B	A
NICKEL		0.8	J	P	0.69	J	P	0.85	J	P
SELENIUM		0.42	B	A	0.56	B	A	0.7	B	A
SILVER		0.014	U		0.014	U		0.014	U	
THALLIUM		0.24	B	A	0.24	B	A	0.24	B	A
TUNGSTEN		0.27	B	A	0.25	B	A	0.25	B	A
VANADIUM		1.5	J	P	1.5	J	P	1.5	J	P
ZINC		0.5	U		0.5	U		0.54	J	P

PROJ_NO: C03292	NSAMPLE	MSA-SW37A-060811			MSA-SW37B-060811			MSA-SW37C-060811			MSA-SW38A-060811		
SDG: 240-948-1	LAB_ID	240-948-26			240-948-27			240-948-28			240-948-14		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERCHLORATE		0.36	U		0.36	U		0.36	U		0.36	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW38B-060811			MSA-SW38C-060811			MSA-SW39A-060811			MSA-SW39B-060811		
SDG: 240-948-1	LAB_ID	240-948-15			240-948-16			240-948-2			240-948-3		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERCHLORATE		0.36	U		0.36	U		0.36	U		0.36	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW39C-060811			MSA-SW40A-060811			MSA-SW40B-060811			MSA-SW40C-060811		
SDG: 240-948-1	LAB_ID	240-948-4			240-948-20			240-948-21			240-948-22		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERCHLORATE		0.36	U		0.36	U		0.36	U		0.36	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW41A-060811			MSA-SW41B-060811			MSA-SW41C-060811			MSA-SW42A-060811		
SDG: 240-948-1	LAB_ID	240-948-11			240-948-12			240-948-13			240-948-23		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERCHLORATE		0.36	U		0.36	U		0.36	U		0.36	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW42B-060811			MSA-SW42C-060811			MSA-SW43A-060811			MSA-SW43B-060811		
SDG: 240-948-1	LAB_ID	240-948-24			240-948-25			240-948-17			240-948-18		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERCHLORATE		0.36	U		0.36	U		0.36	U		0.36	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW43C-060811			MSA-SW44A-060811			MSA-SW44B-060811			MSA-SW44C-060811		
SDG: 240-948-1	LAB_ID	240-948-19			240-948-8			240-948-9			240-948-10		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERCHLORATE		0.36	U		0.36	U		0.36	U		0.36	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW45A-060811			MSA-SW45B-060811			MSA-SW45C-060811		
SDG: 240-948-1	LAB_ID	240-948-5			240-948-6			240-948-7		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
PERCHLORATE		0.36	U		0.36	U		0.36	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW37A-060811 Lab Sample ID: 240-948-26

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 13:16

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.29	2.0	0.073	ug/L	J		1	6020
7440-38-2	Arsenic	1.9	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.2	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.97	2.0	0.11	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.52	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.4	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.4	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J		1	6020
7440-02-0	Nickel	0.81	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.75	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.23	10	0.16	ug/L	J		1	6020
7440-62-2	Vanadium	2.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	2.8	20	0.50	ug/L	J	B	1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW37B-060811 Lab Sample ID: 240-948-27

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 13:23

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.14	2.0	0.073	ug/L	J		1	6020
7440-38-2	Arsenic	2.0	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.3	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.2	2.0	0.11	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.60	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.5	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	2.2	2.0	0.42	ug/L			1	6020
7440-02-0	Nickel	1.0	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.95	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.25	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.27	10	0.16	ug/L	J		1	6020
7440-62-2	Vanadium	2.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	3.6	20	0.50	ug/L	J	B	1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW37C-060811 | Lab Sample ID: 240-948-28

Lab Name: TestAmerica Burlington | Job No.: 240-948-1

SDG ID.:

Matrix: Water | Date Sampled: 06/08/2011 13:28

Reporting Basis: WET | Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.10	2.0	0.073	ug/L	J		1	6020
7440-38-2	Arsenic	2.0	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.3	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.3	2.0	0.11	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.61	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	6.1	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.5	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.8	2.0	0.42	ug/L	J		1	6020
7440-02-0	Nickel	1.1	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.78	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.19	10	0.16	ug/L	J		1	6020
7440-62-2	Vanadium	2.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	4.4	20	0.50	ug/L	J	B	1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW38A-060811 Lab Sample ID: 240-948-14

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 11:05

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	2.0	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.2	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.5	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.65	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	6.7	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.7	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.2	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.56	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.25	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	5.6	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW38B-060811 Lab Sample ID: 240-948-15

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 11:10

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.9	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.3	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.0	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.55	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.6	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.4	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.87	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.53	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.24	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.8	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	3.8	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW38C-060811 Lab Sample ID: 240-948-16

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 11:20

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.27	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.9	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.0	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.1	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.58	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.9	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.5	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.92	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.62	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.24	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	3.2	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW39A-060811 Lab Sample ID: 240-948-2

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 09:00

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.29	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.7	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	10	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.8	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	1.1	1.0	0.049	ug/L		B	1	6020
7440-50-8	Copper	7.1	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	2.5	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	2.0	2.0	0.42	ug/L		B	1	6020
7440-02-0	Nickel	1.8	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.54	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.29	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.44	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	3.5	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	9.2	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW39B-060811
Lab Sample ID: 240-948-3
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 09:05
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.29	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.6	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.6	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.5	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.75	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.2	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.7	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.3	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.62	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.37	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	3.0	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	5.4	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW39C-060811 Lab Sample ID: 240-948-4

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 09:10

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.26	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.5	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	8.5	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.2	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.62	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	4.5	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.3	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.0	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.45	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.31	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.5	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	6.0	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW40A-060811
Lab Sample ID: 240-948-20
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 11:35
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.29	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.8	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	8.9	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.2	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.55	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.4	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.77	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.35	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.27	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	2.8	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW40B-060811 Lab Sample ID: 240-948-21

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 10:40

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.30	2.0	0.073	ug/L	J		1	6020
7440-38-2	Arsenic	2.0	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.3	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.1	2.0	0.11	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.62	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.9	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.5	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	2.1	2.0	0.42	ug/L			1	6020
7440-02-0	Nickel	2.8	2.0	0.63	ug/L			1	6020
7782-49-2	Selenium	0.58	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.30	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.36	10	0.16	ug/L	J		1	6020
7440-62-2	Vanadium	2.5	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	3.6	20	0.50	ug/L	J	B	1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW40C-060811
Lab Sample ID: 240-948-22
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 11:50
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.073	ug/L	J		1	6020
7440-38-2	Arsenic	1.9	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	8.9	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.1	2.0	0.11	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.55	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.4	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J		1	6020
7440-02-0	Nickel	0.95	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.90	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.27	10	0.16	ug/L	J		1	6020
7440-62-2	Vanadium	2.7	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	3.6	20	0.50	ug/L	J	B	1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW41A-060811 | Lab Sample ID: 240-948-11

Lab Name: TestAmerica Burlington | Job No.: 240-948-1

SDG ID.:

Matrix: Water | Date Sampled: 06/08/2011 10:40

Reporting Basis: WET | Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.29	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.9	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.0	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.1	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.63	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.9	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.6	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.95	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.61	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.27	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.7	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	5.4	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW41B-060811
Lab Sample ID: 240-948-12
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 10:50
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.27	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.9	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	8.7	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.1	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.56	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.7	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.4	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.0	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.50	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.26	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.7	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	3.2	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW41C-060811
Lab Sample ID: 240-948-13
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 11:00
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.27	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.8	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	8.9	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.4	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.63	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	6.1	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.6	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.1	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.51	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.26	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.8	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	5.5	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW42A-060811 Lab Sample ID: 240-948-23

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 11:55

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.29	2.0	0.073	ug/L	J		1	6020
7440-38-2	Arsenic	1.8	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.2	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.1	2.0	0.11	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.57	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.5	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J		1	6020
7440-02-0	Nickel	0.83	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.26	10	0.16	ug/L	J		1	6020
7440-62-2	Vanadium	2.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	4.2	20	0.50	ug/L	J	B	1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW42B-060811 | Lab Sample ID: 240-948-24

Lab Name: TestAmerica Burlington | Job No.: 240-948-1

SDG ID.:

Matrix: Water | Date Sampled: 06/08/2011 12:05

Reporting Basis: WET | Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.29	2.0	0.073	ug/L	J		1	6020
7440-38-2	Arsenic	2.0	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.3	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.3	2.0	0.11	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.58	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	6.1	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.6	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J		1	6020
7440-02-0	Nickel	0.94	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.64	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.25	10	0.16	ug/L	J		1	6020
7440-62-2	Vanadium	2.8	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	3.5	20	0.50	ug/L	J	B	1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW42C-060811 | Lab Sample ID: 240-948-25

Lab Name: TestAmerica Burlington | Job No.: 240-948-1

SDG ID.:

Matrix: Water | Date Sampled: 06/08/2011 12:10

Reporting Basis: WET | Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.073	ug/L	J		1	6020
7440-38-2	Arsenic	1.8	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.2	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.2	2.0	0.11	ug/L	J	B	1	6020
7440-48-4	Cobalt	0.58	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	6.1	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.5	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J		1	6020
7440-02-0	Nickel	0.96	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.25	10	0.16	ug/L	J		1	6020
7440-62-2	Vanadium	2.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	4.4	20	0.50	ug/L	J	B	1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW43A-060811
Lab Sample ID: 240-948-17
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 10:20
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.27	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.9	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.0	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.3	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.66	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.6	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.1	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.73	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.25	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	3.7	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW43B-060811 Lab Sample ID: 240-948-18

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 10:25

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.27	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.7	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	8.8	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.1	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.57	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.9	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.5	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.89	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.24	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	4.4	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW43C-060811 Lab Sample ID: 240-948-19

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 10:30

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.29	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.9	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.7	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.5	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.72	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	6.7	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.9	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.1	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.41	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.25	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.9	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	5.0	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW44A-060811 Lab Sample ID: 240-948-8

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 09:45

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.31	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	2.0	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	10	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	2.1	2.0	0.11	ug/L			1	6020
7440-48-4	Cobalt	0.92	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	8.1	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	2.6	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.5	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.41	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.28	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	3.5	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	9.3	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW44B-060811 Lab Sample ID: 240-948-9

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 09:50

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.27	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.9	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.2	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.4	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.69	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	6.5	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.8	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.2	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.63	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.22	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.28	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	3.0	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	5.5	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW44C-060811
Lab Sample ID: 240-948-10
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 10:00
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.9	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.5	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.3	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.69	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	6.1	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.8	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.2	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.49	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.30	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	3.1	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	5.2	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW45A-060811 | Lab Sample ID: 240-948-5

Lab Name: TestAmerica Burlington | Job No.: 240-948-1

SDG ID.:

Matrix: Water | Date Sampled: 06/08/2011 09:20

Reporting Basis: WET | Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.29	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.8	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.7	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.5	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.74	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	6.5	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	2.0	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.3	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.75	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.30	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.7	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	6.4	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW45B-060811 Lab Sample ID: 240-948-6

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 09:25

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.28	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.8	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.6	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.4	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.75	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.9	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.9	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.3	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.56	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.30	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	3.1	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	6.0	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: MSA-SW45C-060811 Lab Sample ID: 240-948-7

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 09:35

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.27	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	2.0	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	9.5	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	1.4	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.74	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	5.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	1.8	1.0	0.024	ug/L		B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.3	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	1.0	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.29	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	2.8	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	8.4	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37A-060811
Lab Sample ID: 240-948-26

Lab Name: TestAmerica Burlington
Job No.: 240-948-1

SDG ID.:

Matrix: Water
Date Sampled: 06/08/2011 13:16

Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.34	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.4	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.9	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.40	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.32	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.31	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.78	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.26	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37B-060811 Lab Sample ID: 240-948-27

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 13:23

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.34	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.5	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.5	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.95	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.33	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.31	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.73	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.26	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.7	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	0.66	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW37C-060811 | Lab Sample ID: 240-948-28

Lab Name: TestAmerica Burlington | Job No.: 240-948-1

SDG ID.:

Matrix: Water | Date Sampled: 06/08/2011 13:28

Reporting Basis: WET | Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.32	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.4	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.3	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.41	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.32	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.85	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.27	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	1.7	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38A-060811 Lab Sample ID: 240-948-14

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 11:05

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.34	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.5	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.5	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.39	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.21	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.6	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.71	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.61	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.22	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.4	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38B-060811
Lab Sample ID: 240-948-15
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 11:10
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.34	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.7	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.4	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.43	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.21	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.7	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.33	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.70	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.94	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.23	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW38C-060811 Lab Sample ID: 240-948-16

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 11:20

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.33	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.7	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.2	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.44	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.21	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.68	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.95	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.24	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39A-060811
Lab Sample ID: 240-948-2
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 09:00
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.31	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.2	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.2	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.32	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.21	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.0	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.32	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.79	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.26	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.34	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.5	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	4.0	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39B-060811 Lab Sample ID: 240-948-3

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 09:05

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.32	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.3	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.5	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.42	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.23	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.1	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.35	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.89	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.37	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.25	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.30	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW39C-060811 Lab Sample ID: 240-948-4

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 09:10

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.31	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.4	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	6.8	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.72	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.21	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.0	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.29	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.94	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.52	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.25	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.29	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.7	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	2.0	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40A-060811 Lab Sample ID: 240-948-20

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 11:35

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
[illegible]	Antimony	0.35	2.0	0.073	ug/L	J	B	1	6020
[illegible]	Arsenic	1.6	5.0	0.092	ug/L	J		1	6020
[illegible]	Barium	7.4	5.0	0.42	ug/L			1	6020
[illegible]	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
[illegible]	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
[illegible]	Chromium	0.41	2.0	0.11	ug/L	J		1	6020
[illegible]	Cobalt	0.21	1.0	0.049	ug/L	J	B	1	6020
[illegible]	Copper	3.8	2.0	0.23	ug/L			1	6020
[illegible]	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
[illegible]	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
[illegible]	Nickel	0.75	2.0	0.63	ug/L	J		1	6020
[illegible]	Selenium	0.84	5.0	0.32	ug/L	J		1	6020
[illegible]	Silver	1.0	1.0	0.014	ug/L	U		1	6020
[illegible]	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
[illegible]	Tungsten	0.24	10	0.16	ug/L	J	B	1	6020
[illegible]	Vanadium	1.6	20	0.30	ug/L	J		1	6020
[illegible]	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40B-060811 | Lab Sample ID: 240-948-21

Lab Name: TestAmerica Burlington | Job No.: 240-948-1

SDG ID.:

Matrix: Water | Date Sampled: 06/08/2011 10:40

Reporting Basis: WET | Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.34	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.1	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.6	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.31	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.33	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.9	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.31	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.9	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.68	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.25	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.34	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	0.67	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW40C-060811 Lab Sample ID: 240-948-22

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 11:50

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.35	2.0	0.073	ug/L	J	B	1	6020
7440-38-	Arsenic	1.3	5.0	0.092	ug/L	J		1	6020
7440-39-	Barium	7.8	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-	Chromium	0.36	2.0	0.11	ug/L	J		1	6020
7440-	Cobalt	0.33	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	4.1	2.0	0.23	ug/L			1	6020
7439-	Lead	0.31	1.0	0.024	ug/L	J	B	1	6020
743	Molybdenum	1.8	2.0	0.42	ug/L	J	B	1	6020
7440-	Nickel	0.78	2.0	0.63	ug/L	J		1	6020
7782-	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-	Tungsten	0.32	10	0.16	ug/L	J	B	1	6020
7440-	Vanadium	1.7	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	0.69	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41A-060811
Lab Sample ID: 240-948-11
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 10:40
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.34	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.6	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.5	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.39	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.21	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.9	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	1.0	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.71	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.25	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.7	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41B-060811 Lab Sample ID: 240-948-12

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 10:50

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.33	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.5	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.0	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.34	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.20	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.74	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.73	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.24	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW41C-060811 Lab Sample ID: 240-948-13

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 11:00

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.32	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.4	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.0	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.42	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.20	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.8	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.77	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.51	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.24	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	0.74	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42A-060811 Lab Sample ID: 240-948-23

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 11:55

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.34	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.3	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.5	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.35	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.32	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.9	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.8	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.76	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.28	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42B-060811
Lab Sample ID: 240-948-24

Lab Name: TestAmerica Burlington
Job No.: 240-948-1

SDG ID.:

Matrix: Water
Date Sampled: 06/08/2011 12:05

Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.33	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.2	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.4	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.37	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.32	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.7	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.28	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.7	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.71	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.27	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.5	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW42C-060811 Lab Sample ID: 240-948-25

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 12:10

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.32	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.4	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.4	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.41	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.32	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	4.1	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.75	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.26	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	0.68	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43A-060811
Lab Sample ID: 240-948-17
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 10:20
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.33	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.4	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.2	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.39	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.19	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.7	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.79	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.69	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.23	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.22	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43B-060811 Lab Sample ID: 240-948-18

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 10:25

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.34	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.6	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.3	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.47	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.20	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.9	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.94	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.46	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.23	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW43C-060811 Lab Sample ID: 240-948-19

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 10:30

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.32	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.5	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.0	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.37	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.20	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.7	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.31	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.74	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.81	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.25	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.5	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44A-060811
Lab Sample ID: 240-948-8
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 09:45
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.32	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.4	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	6.7	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.36	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.20	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.7	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.29	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.71	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.35	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.23	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.5	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44B-060811 | Lab Sample ID: 240-948-9

Lab Name: TestAmerica Burlington | Job No.: 240-948-1

SDG ID.:

Matrix: Water | Date Sampled: 06/08/2011 09:50

Reporting Basis: WET | Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.32	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.4	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	6.7	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.36	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.20	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.6	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.75	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.85	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.27	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.6	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW44C-060811
Lab Sample ID: 240-948-10
Lab Name: TestAmerica Burlington
Job No.: 240-948-1
SDG ID.:
Matrix: Water
Date Sampled: 06/08/2011 10:00
Reporting Basis: WET
Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.32	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.5	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	7.3	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.40	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.20	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.7	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.31	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.6	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.84	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	5.0	5.0	0.32	ug/L	U		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.27	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.7	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	4.6	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45A-060811 | Lab Sample ID: 240-948-5

Lab Name: TestAmerica Burlington | Job No.: 240-948-1

SDG ID.:

Matrix: Water | Date Sampled: 06/08/2011 09:20

Reporting Basis: WET | Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.31	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.3	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	6.8	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.41	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.20	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.4	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.31	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.80	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.42	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.27	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.5	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45B-060811 Lab Sample ID: 240-948-6

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 09:25

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.31	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.4	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	6.7	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.44	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.20	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.2	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.30	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.69	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.56	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.25	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.5	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	20	20	0.50	ug/L	U		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: MSA-SW45C-060811 Lab Sample ID: 240-948-7

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG ID.:

Matrix: Water Date Sampled: 06/08/2011 09:35

Reporting Basis: WET Date Received: 06/09/2011 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-36-0	Antimony	0.32	2.0	0.073	ug/L	J	B	1	6020
7440-38-2	Arsenic	1.5	5.0	0.092	ug/L	J		1	6020
7440-39-3	Barium	6.8	5.0	0.42	ug/L			1	6020
7440-41-7	Beryllium	1.0	1.0	0.092	ug/L	U		1	6020
7440-43-9	Cadmium	1.0	1.0	0.046	ug/L	U		1	6020
7440-47-3	Chromium	0.42	2.0	0.11	ug/L	J		1	6020
7440-48-4	Cobalt	0.20	1.0	0.049	ug/L	J	B	1	6020
7440-50-8	Copper	3.3	2.0	0.23	ug/L			1	6020
7439-92-1	Lead	0.29	1.0	0.024	ug/L	J	B	1	6020
7439-98-7	Molybdenum	1.5	2.0	0.42	ug/L	J	B	1	6020
7440-02-0	Nickel	0.85	2.0	0.63	ug/L	J		1	6020
7782-49-2	Selenium	0.70	5.0	0.32	ug/L	J		1	6020
7440-22-4	Silver	1.0	1.0	0.014	ug/L	U		1	6020
7440-28-0	Thallium	0.24	2.0	0.079	ug/L	J	B	1	6020
7440-33-7	Tungsten	0.25	10	0.16	ug/L	J	B	1	6020
7440-62-2	Vanadium	1.5	20	0.30	ug/L	J		1	6020
7440-66-6	Zinc	0.54	20	0.50	ug/L	J		1	6020
7439-97-6	Mercury	0.20	0.20	0.066	ug/L	U		1	7470A

TestAmerica North Canton

Client Sample ID: MSA-SW37A-060811

General Chemistry

Lot-Sample #...: G1F110419-025 Work Order #...: MJ6FJ Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW37B-060811

General Chemistry

Lot-Sample #...: G1F110419-026 Work Order #...: MJ6FK Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW37C-060811

General Chemistry

Lot-Sample #...: G1F110419-027 Work Order #...: MJ6FL Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW38A-060811

General Chemistry

Lot-Sample #...: G1F110419-013 Work Order #...: MJ6E5 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW38B-060811

General Chemistry

Lot-Sample #...: G1F110419-014 Work Order #...: MJ6E6 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW38C-060811

General Chemistry

Lot-Sample #...: G1F110419-015 Work Order #...: MJ6E7 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW39A-060811

General Chemistry

Lot-Sample #...: G1F110419-001 Work Order #...: MJ6EP Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/21/11	1174077

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW39B-060811

General Chemistry

Lot-Sample #...: G1F110419-002 Work Order #...: MJ6EQ Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/21/11	1174077

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW39C-060811

General Chemistry

Lot-Sample #...: G1F110419-003 **Work Order #...:** MJ6ER **Matrix.....:** WATER
Date Sampled...: 06/08/11 **Date Received..:** 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/21/11	1174077

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW40A-060811

General Chemistry

Lot-Sample #...: G1F110419-019 Work Order #...: MJ6FC Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW40B-060811

General Chemistry

Lot-Sample #...: G1F110419-020 Work Order #...: MJ6FD Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW40C-060811

General Chemistry

Lot-Sample #...: G1F110419-021 **Work Order #...:** MJ6FE **Matrix.....:** WATER
Date Sampled...: 06/08/11 **Date Received..:** 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW41A-060811

General Chemistry

Lot-Sample #...: G1F110419-010 Work Order #...: MJ6E2 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW41B-060811

General Chemistry

Lot-Sample #...: G1F110419-011 Work Order #...: MJ6E3 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW41C-060811

General Chemistry

Lot-Sample #...: G1F110419-012 Work Order #...: MJ6E4 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW42A-060811

General Chemistry

Lot-Sample #...: G1F110419-022 Work Order #...: MJ6FF Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW42B-060811

General Chemistry

Lot-Sample #...: G1F110419-023 Work Order #...: MJ6FG Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW42C-060811

General Chemistry

Lot-Sample #...: G1F110419-024 Work Order #...: MJ6FH Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW43A-060811

General Chemistry

Lot-Sample #...: G1F110419-016 Work Order #...: MJ6E8 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW43B-060811

General Chemistry

Lot-Sample #...: G1F110419-017 Work Order #...: MJ6E9 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW43C-060811

General Chemistry

Lot-Sample #...: G1F110419-018 Work Order #...: MJ6FA Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW44A-060811

General Chemistry

Lot-Sample #...: G1F110419-007 Work Order #...: MJ6EX Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/21/11	1174077

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW44B-060811

General Chemistry

Lot-Sample #...: G1F110419-008 Work Order #...: MJ6E0 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059
	Dilution Factor: 1			MDL.....: 0.36		

TestAmerica North Canton

Client Sample ID: MSA-SW44C-060811

General Chemistry

Lot-Sample #...: G1F110419-009 Work Order #...: MJ6E1 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW45A-060811

General Chemistry

Lot-Sample #...: G1F110419-004 Work Order #...: MJ6ET Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/21/11	1174077

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW45B-060811

General Chemistry

Lot-Sample #...: G1F110419-005 Work Order #...: MJ6EV Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/21/11	1174077

Dilution Factor: 1 MDL.....: 0.36

TestAmerica North Canton

Client Sample ID: MSA-SW45C-060811

General Chemistry

Lot-Sample #...: G1F110419-006 Work Order #...: MJ6EW Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received...: 06/11/11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate	ND	1.0	ug/L	MCAWW 314.0	06/21/11	1174077

Dilution Factor: 1 MDL.....: 0.36

APPENDIX C

SUPPORT DOCUMENTATION

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Lab Contact:	COC No: 009886
Address: 20251 Century Blvd Ste 200	Telephone: 3012338230	Telephone: 3012338230	Telephone:	1 of 3 COCs
City/State/Zip: Germantown, MD. 20874	Email: tony.apanavage@tetratech.com	Analysis Turnaround Time (In BUS days)		For lab use only:
Phone: 3015283021		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No:
Project Name: SURFACE WATER SAMPLING MSA	Method of Shipment/Carrier:			
Project Number: 112IC03292	Shipping/Tracking No:			
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite C / Grab G	Analyses: 40 ml VOA/Vial HCl VOC's	1 Liter Amber Glass SVOC/1,4-Dioxane	250 ml Poly Perchlorate	500 ml Poly HNO3 Total ppm	500 ml Poly None Dissolved ppm							Sample Specific Notes / Special Instructions:
TB-060811	6/8/11	0700		✓						✓							3	2										
MSA-SW39A-060811	6/8/11	0900		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW39B-060811	6/8/11	0905		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW39C-060811	6/8/11	0910		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW45A-060811	6/8/11	0920		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW45B-060811	6/8/11	0925		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW45C-060811	6/8/11	0935		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW44A-060811	6/8/11	0945		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW44B-060811	6/8/11	0950		✓					✓	✓				✓			3	2	1	1	1							
MSA-SW44C-060811	6/8/11	1000		✓					✓	✓				✓			3	2	1	1	1							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

LAB TO FILTER DISSOLVED METALS.

Relinquished by:	Company: TTNUS	Date/Time: 6/8/11 1540	Received by:	Company: TA WC	Date/Time: 6/8/11 15:47
Relinquished by: William C Seng	Company: TA WC	Date/Time: 06/09/11 17:30	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 6/9/11 930

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: TetraTech	Client Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Lab Contact:
Address: 20251 Century Blvd Ste 200	Telephone: 301 233 8230	Telephone: 301 233 8230	Telephone:
City/State/Zip: Germantown, MD, 20874	Email: tony.apanavage@tetratech.com	Analysis Turnaround Time (In BUS days)	COC No: 009888
Phone: 301 528 3021		TAT if different from below ____	2 of 3 COCs
Project Name: SURFACE WATER SAMPLING MSA	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	For lab use only: Walk-in client ☐ Lab sampling ☐
Project Number: 112IC03292	Shipping/Tracking No:		Job/SDG No.:
PO#			

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other: EDA	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: 40 ml VOA Vial HCl VOC's	1 Liter Amber Glass SVOC's 14-Dioxane	250 ml Poly Perchlorate	500 ml Poly HNO3 Total PBW	500 ml Poly None Dissolved PBW	Sample Specific Notes / Special Instructions:
MSA-SW41A-060811	6/8/11	1040		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW41B-060811	6/8/11	1050		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW41C-060811	6/8/11	1100		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW38A-060811	6/8/11	1105		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW38B-060811	6/8/11	1110		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW38C-060811	6/8/11	1120		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW43A-060811	6/8/11	1020		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW43B-060811	6/8/11	1025		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW43C-060811	6/8/11	1030		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW40A-060811	6/8/11	1135		✓					✓	✓				✓			3	2	1	1	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:
LAB TO FILTER DISSOLVED METALS

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TetraTech NVS	6/8/11 1540	[signature]	TA WC	06/08/11 1542
William Q Sem	TA INC	06/08/11 17:30			
			Received in Laboratory by: [signature]	Company: TA	Date/Time: 6/9/11 930

TAL 0018-1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location:

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact

Company Name: Tetra Tech
Address: 20251 Century Blvd Ste 200
City/State/Zip: Germantown, MD 20874
Phone: 301 528 3021
Project Name: Surface Water Sampling MSA
Project Number: 112IC03292
PO#

Client Project Manager: Tony Apanavage
Telephone: 301 233 8230
Email: tony.apanavage@tetratech.com
Method of Shipment/Carrier:
Shipping/Tracking No:

Site Contact: Tony Apanavage
Telephone: 3012338230

Lab Contact:
Telephone:

COC No: 009887
3 of 3 COCs

Analysis Turnaround Time (in BUS days)
TAT if different from below ____
☐ 3 weeks
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

For lab use only
Walk-in client ☐
Lab pickup ☐
Lab sampling ☐
Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Matrix: Aqueous	Matrix: Sediment	Matrix: Solid	Matrix: Other	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other	Filtered Sample (Y/N)	Composite=C / Grab=G	40ml VOA Vial VOCs	1 Liter Amber Glass SVOCs 1,4 Dioxane	250 Poly Perchlorate	500ml Poly HNO3 Total PPM	500ml Poly None Dissolved PPM	Sample Specific Notes / Special Instructions
MSA-SW40B-060811	6/8/11	1040		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW40C-060811	6/8/11	1150		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW42A-060811	6/8/11	1155		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW42B-060811	6/8/11	1205		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW42C-060811	6/8/11	1210		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW37A-060811	6/8/11	1316		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW37B-060811	6/8/11	1323		✓					✓	✓				✓			3	2	1	1	1	
MSA-SW37C-060811	6/8/11	1328		✓					✓	✓				✓			3	2	1	1	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:
LAB TO FILTER DISSOLVED METALS

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TTNUS	6/8/11 1540	William [signature]	TA Inc.	06/08/11 15:42
William [signature]	TA Inc	06/08/11 17:30			
			Received in Laboratory by: [signature]	TA	6/9/11 930

CASE NARRATIVE

Client: <client here>

Project: MSA Surface Water

Report Number: 240-948-1

With the 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. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/09/2011; the samples arrived in good condition, except as noted below. Samples were properly preserved and on ice. The temperatures of the coolers at receipt were 3.9, 5.2, 1.9, 3.9, 5.6, 4.8, 5.1, 3.9.

One liter container for the following sample(s) was received broken or leaking: MSA-SW40A-060811 (240-948-20), MSA-SW41C-060811 (240-948-13), MSA-SW42A-060811 (240-948-23), MSA-SW42C-060811 (240-948-25).

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/22/2011.

1,2,3-Trichlorobenzene and Naphthalene were detected in method blank MB 240-5551/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Trichlorofluoromethane failed the recovery criteria high for LCS 240-5551/4.

2-Chloroethyl vinyl ether failed the recovery criteria low for the MS and MSD of sample MSA-SW43C-060811MS (240-948-19) in batch 240-5679. Refer to the QC report for details.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/10/2011, 06/11/2011 and 07/01/2011 and analyzed on 06/29/2011, 07/05/2011, 07/06/2011 and 07/07/2011.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out

and no corrective action is required.

Bis(2-ethylhexyl) phthalate was detected in method blank MB 240-4415/21-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Acetophenone and Benzaldehyde were detected in method blank MB 240-6848/20-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for MSA-SW44C-060811 (240-948-10) and MSA-SW38B-060811 (240-948-15). Refer to the QC report for details.

Internal standard responses were outside of acceptance limits for the following sample(s): MSA-SW44A-060811 (240-948-8). The sample(s) shows evidence of matrix interference.

The LCS associated with prep batch 4330 had several analyte recoveries below acceptance criteria. Upon reextraction and reanalysis all QC met acceptance criteria, however, sample holding times had been exceeded. Both sets of data have been reported. Benzo(a)pyrene, Benzo(g,h,i)perylene, Dibenzo(a,h)anthracene, Di-n-octyl phthalate and Indeno[1,2,3-cd]pyrene failed the recovery criteria low for LCS 240-4330/22-A. Benzaldehyde failed the recovery criteria high. Refer to the QC report for details.

Sample MSA-SW42C-060811 (240-948-25)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was provided to perform matrix spike/matrix spike duplicate (MS/MSD) for batches 4330, 4415 & 6848.

No other difficulties were encountered during the semivolatiles analyses.

All other quality control parameters were within the acceptance limits.

METALS (ICPMS)

Samples were filtered in the laboratory, and analyzed for metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 06/30/2011 and analyzed on 06/30/2011 and 07/01/2011.

Several analytes were detected in method blank PB 200-20520/1-C, PB 200-20521/1-B, 200-20577/1-A, 200-20579/1-A, 200-20583/1-A and 200-20593/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

The serial dilution performed for the following sample(s) was outside control limits for lead: MSA-SW40A-060811(240-948-20 SD) & MSA-SW37C-060811 (240-948-28 SD).

The ICSAB for batch 20787 exceeded the acceptance limits for element: tungsten.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

MERCURY (CVAA)

Samples were analyzed for total and dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 06/30/2011 and analyzed on 07/01/2011.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

σ		11097.183	199.604	3.786	1086.545	TM 8616689.900	T 672128.180	T 92031.050	T 150919.910	T 35168.249
%RSD		1.482	0.303	13.207	1.368	TM 1.377	T 1.130	T 1.106	T 1.523	T 1.537
Run	**Time**	**31P**	**33S**	**39K**	**44Ca**	**45Sc**	**47Ti**	**51V**	**52Cr**	**53Cl O**
1	08:56:44	23396.067	T 282401.470	T 28708795.000	T 2826376.500	605716.510	3752.774	40102.256	13399.868	9044.497
2	08:57:48	25563.893	T 285753.480	T 29293900.000	T 2894605.000	613933.140	3624.723	44591.093	13421.901	10433.984
3	08:58:51	24613.275	T 285270.380	T 29625430.000	T 2929486.800	620082.160	3328.609	48537.227	13584.142	11399.142
x		24524.411	T 284475.110	T 29209375.000	T 2883489.400	613243.940	3568.702	44410.192	13468.637	10292.541
σ		1086.641	T 1811.997	T 464126.020	T 52446.125	7207.584	217.561	4220.395	100.635	1183.678
%RSD		4.431	T 0.637	T 1.589	T 1.819	1.175	6.096	9.503	0.747	11.500
Run	**Time**	**54Fe**	**55Mn**	**56Fe**	**59Co**	**60Ni**	**62Ni**	**65Cu**	**66Zn**	**67Zn**
1	08:56:44	405807.650	655414.190	T 7060226.700	6632.419	3678.744	2870.453	11274.988	14146.999	2276.285
2	08:57:48	408711.490	666031.750	T 7196378.400	7088.763	3510.678	3060.515	11827.689	14471.509	2384.313
3	08:58:51	414622.330	669692.570	T 7189043.200	6822.559	3710.757	3446.653	11367.102	14169.033	2340.301
x		409713.830	663712.830	T 7148549.400	6847.914	3633.393	3125.874	11489.926	14262.514	2333.633
σ		4492.011	7416.271	T 76577.644	229.226	107.473	293.608	296.115	181.330	54.322
%RSD		1.096	1.117	T 1.071	3.347	2.958	9.393	2.577	1.271	2.328
Run	**Time**	**68Zn**	**75As**	**78Se**	**82Se**	**89Y**	**95Mo**	**98Mo**	**107Ag**	**108Mo O**
1	08:56:44	10460.014	2549.157	1113.068	2068.235	655197.360	4533.130	7288.921	142.001	16.000
2	08:57:48	10536.102	2661.990	1152.473	2260.081	661631.190	4096.923	6734.494	148.001	34.000
3	08:58:51	10540.107	2787.627	1173.876	2090.240	666143.510	3928.849	6286.173	128.001	24.000
x		10512.074	2666.258	1146.472	2139.519	660990.690	4186.301	6769.862	139.334	24.667
σ		45.130	119.292	30.845	104.988	5501.111	311.898	502.309	10.263	9.019
%RSD		0.429	4.474	2.690	4.907	0.832	7.450	7.420	7.366	36.562
Run	**Time**	**109Ag**	**111Cd**	**114Cd**	**115In**	**121Sb**	**123Sb**	**135Ba**	**137Ba**	**159Tb**
1	08:56:44	118.001	130.001	314.005	798069.350	1227.483	952.450	10223.746	18296.393	828849.130
2	08:57:48	126.001	140.001	274.004	806167.200	1177.076	922.447	10466.021	18093.989	834776.400
3	08:58:51	94.000	112.001	282.004	813617.040	1158.874	912.846	10375.918	18168.136	836951.380
x		112.667	127.334	290.005	805951.200	1187.811	929.248	10355.228	18186.173	833525.640
σ		16.654	14.189	21.167	7776.097	35.542	20.659	122.456	102.401	4193.442
%RSD		14.781	11.143	7.299	0.965	2.992	2.223	1.183	0.563	0.503
Run	**Time**	**182W**	**184W**	**203Tl**	**205Tl**	**208Pb**	**209Bi**	**220Bkg**	**232Th**	**238U**
1	08:56:44	3858.819	4621.174	830.038	2098.242	36860.577	1304822.700	0.000	7729.284	15501.205
2	08:57:48	3682.746	4305.019	642.023	1666.153	36511.172	1307331.800	0.000	6916.630	15731.600
3	08:58:51	3498.673	4022.890	614.021	1440.114	38736.352	1322929.000	0.000	6512.332	15423.072
x		3680.079	4316.361	695.360	1734.836	37369.367	1311694.500	0.000	7052.749	15551.959
σ		180.088	299.303	117.471	334.397	1196.665	9809.887	0.000	619.790	160.404
%RSD		4.894	6.934	16.894	19.275	3.202	0.748	0.000	8.788	1.031

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MSA-SW39A-060811

$10355.28 \frac{mg}{L} \times \frac{1\ ug}{1\ mg} = 10.35 \frac{ug}{L}$

Reported as $10 \frac{ug}{L}$

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 240-948
North Canton Facility

Client Tetra Tech Project SURFACE WATER By: Matt Gem
Cooler Received on 6/9/11 Opened on 9 JUN 2011 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # BACK Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 2 Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other PLASTIC BAG
6. Cooler temperature upon receipt BACK °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☐ No ☒
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM PJO Date 9 JUN 2011 by CSL VIA MAF via Verbal ☐ Voice Mail ☒ Other ☐
Concerning #15 AS BELOW

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) AMBER LITER EACH (41C) (42C) (40A) 42A DISPOSED were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preserved added to sample(s)?

Client ID	pH	Date	Initials
39A	≤2	9 JUN 2011	MAF
39B	≤2		
39C	≤2		
45A	≤2		
45B	≤2		
45C	≤2		
44A	≤2		
44B	≤2		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
44C	12	9 JUN 2011	MAF
41A	12		
41B	12		
41C	12		
38A	12		
38B	12		
38C	12		
43A	12		
43B	12		
43C	12		
40A	12		
40B	12		
40C	12		
42A	12		
42B	12		
42C	12		
37A	12		
37B	12		
37C	12		

Cooler #	Temp. °C	Method	Coolant
Client Cooler	3.9°C	IR	ICE
	5.2°C		
	1.9°C		
	3.9°C		
	5.6°C		
	4.8°C		
	5.1°C		
	3.9°C		

Discrepancies Cont'd:

Login Sample Receipt Checklist

Client: Tetra Tech NUS Inc

Job Number: 240-948-1

Login Number: 948
List Number: 1
Creator: Livengood, Chris

List Source: TestAmerica North Canton

Question	Answer	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	3.9 5.2 1.9 3.9 5.6 4.8 5.1 3.9
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	
Is the Field Sampler's name present on COC?	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.	False	1XL BROKE FOR SAMPLES SW41C,SW40A,SW42A,AND SW42C
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Tetra Tech NUS Inc

Job Number: 240-948-1

Login Number: 948
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington
List Creation: 06/29/11 11:12 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	19.1,19.6°C IR GUN ID 96/CF=0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
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	
Sample Preservation Verified.	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	
Multiphasic samples are not present.	False	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	Check done at department level as required.

COVER PAGE
METALS

Lab Name: TestAmerica Burlington Job Number: 240-948-1

SDG No.:

Project: MSA Surface Water

Client Sample ID	Lab Sample ID
MSA-SW39A-060811	240-948-2
MSA-SW39B-060811	240-948-3
MSA-SW39C-060811	240-948-4
MSA-SW45A-060811	240-948-5
MSA-SW45B-060811	240-948-6
MSA-SW45C-060811	240-948-7
MSA-SW44A-060811	240-948-8
MSA-SW44B-060811	240-948-9
MSA-SW44C-060811	240-948-10
MSA-SW41A-060811	240-948-11
MSA-SW41B-060811	240-948-12
MSA-SW41C-060811	240-948-13
MSA-SW38A-060811	240-948-14
MSA-SW38B-060811	240-948-15
MSA-SW38C-060811	240-948-16
MSA-SW43A-060811	240-948-17
MSA-SW43B-060811	240-948-18
MSA-SW43C-060811	240-948-19
MSA-SW40A-060811	240-948-20
MSA-SW40B-060811	240-948-21
MSA-SW40C-060811	240-948-22
MSA-SW42A-060811	240-948-23
MSA-SW42B-060811	240-948-24
MSA-SW42C-060811	240-948-25
MSA-SW37A-060811	240-948-26
MSA-SW37B-060811	240-948-27
MSA-SW37C-060811	240-948-28

Comments:

HOLDTIMES

SDG 240-948-1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HG	UG/L	MSA-SW43B-060811	240-948-18	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW37A-060811	240-948-26	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW45B-060811	240-948-6	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW45A-060811	240-948-5	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW44C-060811	240-948-10	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW44B-060811	240-948-9	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW43C-060811	240-948-19	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW45C-060811	240-948-7	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW43A-060811	240-948-17	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW42C-060811	240-948-25	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW42B-060811	240-948-24	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW42A-060811	240-948-23	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW41C-060811	240-948-13	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW38C-060811	240-948-16	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW37B-060811	240-948-27	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HG	UG/L	MSA-SW44A-060811	240-948-8	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW41B-060811	240-948-12	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW38B-060811	240-948-15	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW37C-060811	240-948-28	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW39A-060811	240-948-2	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW39B-060811	240-948-3	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW39C-060811	240-948-4	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW40A-060811	240-948-20	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW40B-060811	240-948-21	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW40C-060811	240-948-22	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW41A-060811	240-948-11	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HG	UG/L	MSA-SW38A-060811	240-948-14	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW41A-060811	240-948-11	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW39B-060811	240-948-3	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW40C-060811	240-948-22	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW40B-060811	240-948-21	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW40A-060811	240-948-20	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW39C-060811	240-948-4	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	MSA-SW39A-060811	240-948-2	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW38C-060811	240-948-16	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW38B-060811	240-948-15	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW38A-060811	240-948-14	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW37B-060811	240-948-27	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW41B-060811	240-948-12	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW37C-060811	240-948-28	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW41C-060811	240-948-13	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW42A-060811	240-948-23	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW42B-060811	240-948-24	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW42C-060811	240-948-25	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW43A-060811	240-948-17	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW43B-060811	240-948-18	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW43C-060811	240-948-19	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW44A-060811	240-948-8	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW44B-060811	240-948-9	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW44C-060811	240-948-10	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW45A-060811	240-948-5	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
M	UG/L	MSA-SW37A-060811	240-948-26	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW45C-060811	240-948-7	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
M	UG/L	MSA-SW45B-060811	240-948-6	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW44B-060811	240-948-9	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW38B-060811	240-948-15	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW37A-060811	240-948-26	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW37B-060811	240-948-27	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW45A-060811	240-948-5	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW38A-060811	240-948-14	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW45C-060811	240-948-7	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW38C-060811	240-948-16	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW39A-060811	240-948-2	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW39B-060811	240-948-3	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW39C-060811	240-948-4	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW40A-060811	240-948-20	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW40B-060811	240-948-21	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW40C-060811	240-948-22	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW44C-060811	240-948-10	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
HGF	UG/L	MSA-SW37C-060811	240-948-28	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW41A-060811	240-948-11	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW45B-060811	240-948-6	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW44A-060811	240-948-8	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW43C-060811	240-948-19	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW43B-060811	240-948-18	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW43A-060811	240-948-17	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW42C-060811	240-948-25	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW42B-060811	240-948-24	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW42A-060811	240-948-23	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW41C-060811	240-948-13	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
HGF	UG/L	MSA-SW41B-060811	240-948-12	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW37C-060811	240-948-28	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW40B-060811	240-948-21	NM	06/08/2011	06/30/2011	06/30/2011	22	0	22
MF	UG/L	MSA-SW42B-060811	240-948-24	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW42A-060811	240-948-23	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW41C-060811	240-948-13	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW41B-060811	240-948-12	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
MF	UG/L	MSA-SW41A-060811	240-948-11	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW40C-060811	240-948-22	NM	06/08/2011	06/30/2011	06/30/2011	22	0	22
MF	UG/L	MSA-SW42C-060811	240-948-25	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW40A-060811	240-948-20	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW39C-060811	240-948-4	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW39B-060811	240-948-3	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW39A-060811	240-948-2	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW38C-060811	240-948-16	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW38A-060811	240-948-14	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW37B-060811	240-948-27	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW37A-060811	240-948-26	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW43C-060811	240-948-19	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW38B-060811	240-948-15	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW44A-060811	240-948-8	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW44B-060811	240-948-9	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW44C-060811	240-948-10	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW45A-060811	240-948-5	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW45B-060811	240-948-6	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
MF	UG/L	MSA-SW45C-060811	240-948-7	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW43B-060811	240-948-18	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
MF	UG/L	MSA-SW43A-060811	240-948-17	NM	06/08/2011	06/30/2011	07/01/2011	22	1	23
PCL	UG/L	MSA-SW45A-060811	240-948-5	NM	06/08/2011	06/21/2011	06/21/2011	13	0	13
PCL	UG/L	MSA-SW42B-060811	240-948-24	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW42C-060811	240-948-25	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW43A-060811	240-948-17	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW43B-060811	240-948-18	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW43C-060811	240-948-19	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW44A-060811	240-948-8	NM	06/08/2011	06/21/2011	06/21/2011	13	0	13
PCL	UG/L	MSA-SW42A-060811	240-948-23	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW44C-060811	240-948-10	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW41A-060811	240-948-11	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW45B-060811	240-948-6	NM	06/08/2011	06/21/2011	06/21/2011	13	0	13
PCL	UG/L	MSA-SW37A-060811	240-948-26	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW44B-060811	240-948-9	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW39A-060811	240-948-2	NM	06/08/2011	06/21/2011	06/21/2011	13	0	13
PCL	UG/L	MSA-SW45C-060811	240-948-7	NM	06/08/2011	06/21/2011	06/21/2011	13	0	13

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
PCL	UG/L	MSA-SW37B-060811	240-948-27	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW37C-060811	240-948-28	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW38A-060811	240-948-14	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW41C-060811	240-948-13	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW38C-060811	240-948-16	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW39B-060811	240-948-3	NM	06/08/2011	06/21/2011	06/21/2011	13	0	13
PCL	UG/L	MSA-SW39C-060811	240-948-4	NM	06/08/2011	06/21/2011	06/21/2011	13	0	13
PCL	UG/L	MSA-SW40A-060811	240-948-20	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW40B-060811	240-948-21	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW40C-060811	240-948-22	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW41B-060811	240-948-12	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
PCL	UG/L	MSA-SW38B-060811	240-948-15	NM	06/08/2011	06/23/2011	06/23/2011	15	0	15
OS	UG/L	MSA-SW45B-060811	240-948-6	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21
OS	UG/L	MSA-SW44B-060811	240-948-9	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21
OS	UG/L	MSA-SW45C-060811	240-948-7	NM	06/08/2011	07/01/2011	07/06/2011	23	5	28
OS	UG/L	MSA-SW45C-060811	240-948-7	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21
OS	UG/L	MSA-SW45B-060811	240-948-6	NM	06/08/2011	07/01/2011	07/06/2011	23	5	28
OS	UG/L	MSA-SW39A-060811	240-948-2	NM	06/08/2011	06/10/2011	06/29/2011	2	19	21

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Burlington Job Number: 240-948-1

SDG Number:

Matrix: Water Instrument ID: METICPMS2

Method: 6020 MDL Date: 08/06/2010 10:09

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Antimony		2	0.073
Arsenic		5	0.092
Barium		5	0.42
Beryllium		1	0.092
Cadmium		1	0.046
Chromium		2	0.11
Cobalt		1	0.049
Copper		2	0.23
Lead		1	0.024
Molybdenum		2	0.42
Nickel		2	0.63
Selenium		5	0.32
Silver		1	0.014
Thallium		2	0.079
Tungsten		10	0.16
Vanadium		20	0.3
Zinc		20	0.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Burlington Job Number: 240-948-1

SDG Number:

Matrix: Water Instrument ID: METICPMS2

Method: 6020 XMDL Date: 08/06/2010 10:09

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.073
Arsenic		5	0.092
Barium		5	0.42
Beryllium		1	0.092
Cadmium		1	0.046
Chromium		2	0.11
Cobalt		1	0.049
Copper		2	0.23
Lead		1	0.024
Molybdenum		2	0.42
Nickel		2	0.63
Selenium		5	0.32
Silver		1	0.14
Thallium		2	0.079
Tungsten		10	0.16
Vanadium		20	0.3
Zinc		20	0.5

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Burlington Job Number: 240-948-1

SDG Number:

Matrix: Water Instrument ID: METICPMS2

Method: 6020 MDL Date: 08/06/2010 10:09

Prep Method: 3010A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Antimony		2	0.073
Arsenic		5	0.092
Barium		5	0.42
Beryllium		1	0.092
Cadmium		1	0.046
Chromium		2	0.11
Cobalt		1	0.049
Copper		2	0.23
Lead		1	0.024
Molybdenum		2	0.42
Nickel		2	0.63
Selenium		5	0.32
Silver		1	0.014
Thallium		2	0.079
Tungsten		10	0.16
Vanadium		20	0.3
Zinc		20	0.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Burlington Job Number: 240-948-1

SDG Number:

Matrix: Water Instrument ID: METICPMS2

Method: 6020 XMDL Date: 08/06/2010 10:09

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Antimony		2	0.073
Arsenic		5	0.092
Barium		5	0.42
Beryllium		1	0.092
Cadmium		1	0.046
Chromium		2	0.11
Cobalt		1	0.049
Copper		2	0.23
Lead		1	0.024
Molybdenum		2	0.42
Nickel		2	0.63
Selenium		5	0.32
Silver		1	0.14
Thallium		2	0.079
Tungsten		10	0.16
Vanadium		20	0.3
Zinc		20	0.5

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Burlington Job Number: 240-948-1

SDG Number:

Matrix: Water Instrument ID: MEPCV3

Method: 7470A MDL Date: 05/05/2011 17:06

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.066

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Burlington Job Number: 240-948-1

SDG Number:

Matrix: Water Instrument ID: MEPCV3

Method: 7470A XMDL Date: 05/05/2011 17:07

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.066

FORM IX - IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Burlington Job Number: 240-948-1

SDG Number:

Matrix: Water Instrument ID: MEPCV3 II

Method: 7470A MDL Date: 05/05/2011 17:06

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.066

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Burlington Job Number: 240-948-1

SDG Number:

Matrix: Water Instrument ID: MEPCV3 II

Method: 7470A XMDL Date: 05/05/2011 17:07

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.066

FORM IX - IN

9-IN
DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Burlington Job Number: 240-948-1

SDG Number:

Matrix: Water Instrument ID: MEPCV3 II

Method: 7470A MDL Date: 05/05/2011 17:06

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury		0.2	0.066

FORM IX - IN

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - DISSOLVED

Lab Name: TestAmerica Burlington Job Number: 240-948-1

SDG Number:

Matrix: Water Instrument ID: MEPCV3 II

Method: 7470A XMDL Date: 05/05/2011 17:07

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury		0.2	0.066

FORM IX - IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Burlington Job No: 240-948-1

SDG No.:

Instrument ID: METICPMS2 Date: 05/07/2011 00:00

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Antimony		500	6020
Arsenic		500	6020
Barium		12500	6020
Beryllium		500	6020
Cadmium		500	6020
Chromium		1000	6020
Cobalt		2500	6020
Copper		1000	6020
Lead		100	6020
Molybdenum		5000	6020
Nickel		1000	6020
Selenium		500	6020
Silver		500	6020
Thallium		500	6020
Tungsten		500	6020
Vanadium		1000	6020
Zinc		500	6020

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Burlington Job No: 240-948-1

SDG No.:

Instrument ID: MEPCV3 Date: 01/01/2011 09:54

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Mercury	10	10	7470A

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Burlington Job No: 240-948-1

SDG No.:

Instrument ID: MEPCV3 II Date: 01/01/2011 09:52

Analyte	Integ. Time (Sec.)	Concentration (ug/L)		Method
Mercury	10		10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 200-20577/1-A	06/30/2011 10:38	20577		100	100
LCS 200-20577/2-A	06/30/2011 10:38	20577		100	100
240-948-2	06/30/2011 10:38	20577		100	100
240-948-3	06/30/2011 10:38	20577		100	100
240-948-4	06/30/2011 10:38	20577		100	100
240-948-5	06/30/2011 10:38	20577		100	100
240-948-6	06/30/2011 10:38	20577		100	100
240-948-7	06/30/2011 10:38	20577		100	100
240-948-8	06/30/2011 10:38	20577		100	100
240-948-9	06/30/2011 10:38	20577		100	100
240-948-10	06/30/2011 10:38	20577		100	100
240-948-11	06/30/2011 10:38	20577		100	100
240-948-12	06/30/2011 10:38	20577		100	100
240-948-13	06/30/2011 10:38	20577		100	100
240-948-14	06/30/2011 10:38	20577		100	100
240-948-15	06/30/2011 10:38	20577		100	100
240-948-16	06/30/2011 10:38	20577		100	100
240-948-17	06/30/2011 10:38	20577		100	100
240-948-18	06/30/2011 10:38	20577		100	100
240-948-19	06/30/2011 10:38	20577		100	100
240-948-20	06/30/2011 10:38	20577		100	100

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 200-20577/1-A

Instrument Code: METICPMS2 Batch No.: 20747

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.0880	J		6020
7440-38-2	Arsenic	5.0	U		6020
7440-39-3	Barium	5.0	U		6020
7440-41-7	Beryllium	1.0	U		6020
7440-43-9	Cadmium	1.0	U		6020
7440-47-3	Chromium	2.0	U		6020
7440-48-4	Cobalt	0.146	J		6020
7440-50-8	Copper	2.0	U		6020
7439-92-1	Lead	0.187	J		6020
7439-98-7	Molybdenum	0.914	J		6020
7440-02-0	Nickel	2.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-22-4	Silver	1.0	U		6020
7440-28-0	Thallium	0.233	J		6020
7440-33-7	Tungsten	0.238	J		6020
7440-62-2	Vanadium	20	U		6020
7440-66-6	Zinc	20	U		6020

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 200-20577/2-A

Lab Name: TestAmerica Burlington Job No.: 240-948-1

Sample Matrix: Water LCS Source: MEICPMSICVi_00018

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	50.0	47.5		95	80	120		6020
Arsenic	25.0	21.8		87	80	120		6020
Barium	1250	1330		106	80	120		6020
Beryllium	25.0	23.4		94	80	120		6020
Cadmium	25.0	23.6		94	80	120		6020
Chromium	50.0	49.9		100	80	120		6020
Cobalt	125	126		101	80	120		6020
Copper	50.0	50.3		101	80	120		6020
Lead	25.0	25.0		100	80	120		6020
Molybdenum	250	256		102	80	120		6020
Nickel	50.0	50.4		101	80	120		6020
Selenium	25.0	20.8		83	80	120		6020
Silver	25.0	24.8		99	80	120		6020
Thallium	25.0	24.4		98	80	120		6020
Tungsten	25.0	24.8		99	80	120		6020
Vanadium	50.0	50.0		100	80	120		6020
Zinc	50.0	45.6		91	80	120		6020

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 240-948-20

SDG No:

Lab Name: TestAmerica Burlington Job No: 240-948-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.29	J	0.420	J	NC		6020
Arsenic	1.8	J	1.70	J	NC		6020
Barium	8.9		8.91	J	NC		6020
Beryllium	1.0	U	5.0	U	NC		6020
Cadmium	1.0	U	5.0	U	NC		6020
Chromium	1.2	J	0.920	J	NC		6020
Cobalt	0.55	J	1.12	J	NC		6020
Copper	5.8		5.55	J	NC		6020
Lead	1.4		1.94	J	36	V	6020
Molybdenum	1.7	J	10	U	NC		6020
Nickel	0.77	J	10	U	NC		6020
Selenium	0.35	J	25	U	NC		6020
Silver	1.0	U	5.0	U	NC		6020
Thallium	0.22	J	1.07	J	NC		6020
Tungsten	0.27	J	50	U	NC		6020
Vanadium	2.6	J	2.65	J	NC		6020
Zinc	2.8	J	100	U	NC		6020

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

FORM VIII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 200-20579/1-A	06/30/2011 10:10	20579		100	100
LCS 200-20579/2-A	06/30/2011 10:10	20579		100	100
240-948-21	06/30/2011 10:10	20579		100	100
240-948-22	06/30/2011 10:10	20579		100	100
240-948-23	06/30/2011 10:10	20579		100	100
240-948-24	06/30/2011 10:10	20579		100	100
240-948-25	06/30/2011 10:10	20579		100	100
240-948-26	06/30/2011 10:10	20579		100	100
240-948-27	06/30/2011 10:10	20579		100	100
240-948-28	06/30/2011 10:10	20579		100	100

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 200-20579/1-A

Instrument Code: METICPMS2 Batch No.: 20747

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	2.0	U		6020
7440-38-2	Arsenic	5.0	U		6020
7440-39-3	Barium	5.0	U		6020
7440-41-7	Beryllium	1.0	U		6020
7440-43-9	Cadmium	1.0	U		6020
7440-47-3	Chromium	0.292	J		6020
7440-48-4	Cobalt	0.146	J		6020
7440-50-8	Copper	2.0	U		6020
7439-92-1	Lead	0.0870	J		6020
7439-98-7	Molybdenum	2.0	U		6020
7440-02-0	Nickel	2.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-22-4	Silver	1.0	U		6020
7440-28-0	Thallium	0.213	J		6020
7440-33-7	Tungsten	10	U		6020
7440-62-2	Vanadium	20	U		6020
7440-66-6	Zinc	0.719	J		6020

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 200-20579/2-A

Lab Name: TestAmerica Burlington Job No.: 240-948-1

Sample Matrix: Water LCS Source: MEICPMSICVi_00018

Analyte	Water(ug/L) True	Found	C	%R	Limits		Q	Method
Antimony	50.0	49.2		98	80	120		6020
Arsenic	25.0	22.8		91	80	120		6020
Barium	1250	1400		112	80	120		6020
Beryllium	25.0	24.3		97	80	120		6020
Cadmium	25.0	24.7		99	80	120		6020
Chromium	50.0	52.6		105	80	120		6020
Cobalt	125	132		106	80	120		6020
Copper	50.0	52.2		104	80	120		6020
Lead	25.0	26.1		105	80	120		6020
Molybdenum	250	269		108	80	120		6020
Nickel	50.0	53.0		106	80	120		6020
Selenium	25.0	21.4		86	80	120		6020
Silver	25.0	26.2		105	80	120		6020
Thallium	25.0	25.4		102	80	120		6020
Tungsten	25.0	25.7		103	80	120		6020
Vanadium	50.0	52.8		106	80	120		6020
Zinc	50.0	45.5		91	80	120		6020

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 240-948-28

SDG No:

Lab Name: TestAmerica Burlington Job No: 240-948-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.10	J	10	U	NC		6020
Arsenic	2.0	J	1.78	J	NC		6020
Barium	9.3		8.22	J	NC		6020
Beryllium	1.0	U	5.0	U	NC		6020
Cadmium	1.0	U	5.0	U	NC		6020
Chromium	1.3	J	1.87	J	NC		6020
Cobalt	0.61	J	1.35	J	NC		6020
Copper	6.1		5.93	J	NC		6020
Lead	1.5		2.00	J	33	V	6020
Molybdenum	1.8	J	10	U	NC		6020
Nickel	1.1	J	10	U	NC		6020
Selenium	0.78	J	25	U	NC		6020
Silver	1.0	U	5.0	U	NC		6020
Thallium	0.24	J	1.13	J	NC		6020
Tungsten	0.19	J	50	U	NC		6020
Vanadium	2.6	J	1.73	J	NC		6020
Zinc	4.4	J	4.53	J	NC		6020

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

FORM VIII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 200-20583/1-A	06/30/2011 11:06	20583		100	100
LCS 200-20583/2-A	06/30/2011 11:06	20583		100	100
PB 200-20520/1-C	06/30/2011 11:06	20583		100	100
240-948-2	06/30/2011 11:06	20583		100	100
240-948-3	06/30/2011 11:06	20583		100	100
240-948-4	06/30/2011 11:06	20583		100	100
240-948-5	06/30/2011 11:06	20583		100	100
240-948-6	06/30/2011 11:06	20583		100	100
240-948-7	06/30/2011 11:06	20583		100	100
240-948-8	06/30/2011 11:06	20583		100	100
240-948-9	06/30/2011 11:06	20583		100	100
240-948-10	06/30/2011 11:06	20583		100	100
240-948-11	06/30/2011 11:06	20583		100	100
240-948-12	06/30/2011 11:06	20583		100	100
240-948-13	06/30/2011 11:06	20583		100	100
240-948-14	06/30/2011 11:06	20583		100	100
240-948-15	06/30/2011 11:06	20583		100	100
240-948-16	06/30/2011 11:06	20583		100	100
240-948-17	06/30/2011 11:06	20583		100	100
240-948-18	06/30/2011 11:06	20583		100	100
240-948-19	06/30/2011 11:06	20583		100	100
240-948-20	06/30/2011 11:06	20583		100	100

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 200-20583/1-A

Instrument Code: METICPMS2 Batch No.: 20771

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.137	J		6020
7440-38-2	Arsenic	5.0	U		6020
7440-39-3	Barium	5.0	U		6020
7440-41-7	Beryllium	1.0	U		6020
7440-43-9	Cadmium	1.0	U		6020
7440-47-3	Chromium	2.0	U		6020
7440-48-4	Cobalt	0.121	J		6020
7440-50-8	Copper	2.0	U		6020
7439-92-1	Lead	0.190	J		6020
7439-98-7	Molybdenum	0.790	J		6020
7440-02-0	Nickel	2.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-22-4	Silver	1.0	U		6020
7440-28-0	Thallium	0.250	J		6020
7440-33-7	Tungsten	0.239	J		6020
7440-62-2	Vanadium	20	U		6020
7440-66-6	Zinc	20	U		6020

FORM III-IN

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: PB 200-20520/1-C

Instrument Code: METICPMS2 Batch No.: 20771

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.124	J		6020
7440-38-2	Arsenic	5.0	U		6020
7440-39-3	Barium	5.0	U		6020
7440-41-7	Beryllium	1.0	U		6020
7440-43-9	Cadmium	1.0	U		6020
7440-47-3	Chromium	2.0	U		6020
7440-48-4	Cobalt	0.129	J		6020
7440-50-8	Copper	2.0	U		6020
7439-92-1	Lead	0.201	J		6020
7439-98-7	Molybdenum	0.634	J		6020
7440-02-0	Nickel	2.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-22-4	Silver	1.0	U		6020
7440-28-0	Thallium	0.304	J		6020
7440-33-7	Tungsten	0.244	J		6020
7440-62-2	Vanadium	20	U		6020
7440-66-6	Zinc	20	U		6020

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 200-20583/2-A

Lab Name: TestAmerica Burlington Job No.: 240-948-1

Sample Matrix: Water LCS Source: MEICPMSICVi_00018

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Antimony	50.0	48.9		98	80	120		6020
Arsenic	25.0	22.3		89	80	120		6020
Barium	1250	1380		110	80	120		6020
Beryllium	25.0	24.1		96	80	120		6020
Cadmium	25.0	24.8		99	80	120		6020
Chromium	50.0	51.4		103	80	120		6020
Cobalt	125	131		105	80	120		6020
Copper	50.0	52.2		104	80	120		6020
Lead	25.0	25.9		104	80	120		6020
Molybdenum	250	267		107	80	120		6020
Nickel	50.0	52.2		104	80	120		6020
Selenium	25.0	21.1		84	80	120		6020
Silver	25.0	25.7		103	80	120		6020
Thallium	25.0	25.3		101	80	120		6020
Tungsten	25.0	25.6		102	80	120		6020
Vanadium	50.0	51.3		103	80	120		6020
Zinc	50.0	46.1		92	80	120		6020

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 240-948-20

SDG No:

Lab Name: TestAmerica Burlington Job No: 240-948-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.35	J	10	U	NC		6020
Arsenic	1.6	J	25	U	NC		6020
Barium	7.4		5.16	J	NC		6020
Beryllium	1.0	U	5.0	U	NC		6020
Cadmium	1.0	U	5.0	U	NC		6020
Chromium	0.41	J	10	U	NC		6020
Cobalt	0.21	J	5.0	U	NC		6020
Copper	3.8		10	U	NC		6020
Lead	0.30	J	0.380	J	NC		6020
Molybdenum	1.6	J	10	U	NC		6020
Nickel	0.75	J	10	U	NC		6020
Selenium	0.84	J	25	U	NC		6020
Silver	1.0	U	5.0	U	NC		6020
Thallium	0.24	J	0.575	J	NC		6020
Tungsten	0.24	J	50	U	NC		6020
Vanadium	1.6	J	100	U	NC		6020
Zinc	20	U	100	U	NC		6020

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

FORM VIII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Prep Method: 3010A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 200-20593/1-A	06/30/2011 11:42	20593		100	100
LCS 200-20593/2-A	06/30/2011 11:42	20593		100	100
PB 200-20521/1-B	06/30/2011 11:42	20593		100	100
240-948-21	06/30/2011 11:42	20593		100	100
240-948-22	06/30/2011 11:42	20593		100	100
240-948-23	06/30/2011 11:42	20593		100	100
240-948-24	06/30/2011 11:42	20593		100	100
240-948-25	06/30/2011 11:42	20593		100	100
240-948-26	06/30/2011 11:42	20593		100	100
240-948-27	06/30/2011 11:42	20593		100	100
240-948-28	06/30/2011 11:42	20593		100	100

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 200-20593/1-A

Instrument Code: METICPMS2 Batch No.: 20702

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.129	J		6020
7440-38-2	Arsenic	5.0	U		6020
7440-39-3	Barium	5.0	U		6020
7440-41-7	Beryllium	1.0	U		6020
7440-43-9	Cadmium	1.0	U		6020
7440-47-3	Chromium	2.0	U		6020
7440-48-4	Cobalt	0.242	J		6020
7440-50-8	Copper	2.0	U		6020
7439-92-1	Lead	0.187	J		6020
7439-98-7	Molybdenum	0.763	J		6020
7440-02-0	Nickel	2.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-22-4	Silver	1.0	U		6020
7440-28-0	Thallium	0.241	J		6020
7440-33-7	Tungsten	0.267	J		6020
7440-62-2	Vanadium	20	U		6020
7440-66-6	Zinc	20	U		6020

FORM III-IN

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: PB 200-20521/1-B

Instrument Code: METICPMS2 Batch No.: 20702

CAS No.	Analyte	Concentration	C	Q	Method
7440-36-0	Antimony	0.135	J		6020
7440-38-2	Arsenic	5.0	U		6020
7440-39-3	Barium	0.556	J		6020
7440-41-7	Beryllium	1.0	U		6020
7440-43-9	Cadmium	1.0	U		6020
7440-47-3	Chromium	0.154	J		6020
7440-48-4	Cobalt	0.304	J		6020
7440-50-8	Copper	2.0	U		6020
7439-92-1	Lead	0.217	J		6020
7439-98-7	Molybdenum	0.774	J		6020
7440-02-0	Nickel	2.0	U		6020
7782-49-2	Selenium	5.0	U		6020
7440-22-4	Silver	1.0	U		6020
7440-28-0	Thallium	0.303	J		6020
7440-33-7	Tungsten	0.276	J		6020
7440-62-2	Vanadium	20	U		6020
7440-66-6	Zinc	20	U		6020

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 200-20593/2-A

Lab Name: TestAmerica Burlington Job No.: 240-948-1

Sample Matrix: Water LCS Source: MEICPMSICVi_00018

Water(ug/L)

Analyte	True	Found	C	%R	Limits		Q	Method
Antimony	50.0	47.7		95	80	120		6020
Arsenic	25.0	21.9		87	80	120		6020
Barium	1250	1340		107	80	120		6020
Beryllium	25.0	23.5		94	80	120		6020
Cadmium	25.0	23.9		95	80	120		6020
Chromium	50.0	50.2		100	80	120		6020
Cobalt	125	127		102	80	120		6020
Copper	50.0	50.9		102	80	120		6020
Lead	25.0	25.3		101	80	120		6020
Molybdenum	250	258		103	80	120		6020
Nickel	50.0	50.6		101	80	120		6020
Selenium	25.0	20.0		80	80	120		6020
Silver	25.0	25.2		101	80	120		6020
Thallium	25.0	24.7		99	80	120		6020
Tungsten	25.0	24.8		99	80	120		6020
Vanadium	50.0	50.3		101	80	120		6020
Zinc	50.0	46.6		93	80	120		6020

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS - DISSOLVED

Lab ID: 240-948-28

SDG No:

Lab Name: TestAmerica Burlington Job No: 240-948-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Antimony	0.32	J	0.655	J	NC		6020
Arsenic	1.4	J	1.47	J	NC		6020
Barium	7.3		6.59	J	NC		6020
Beryllium	1.0	U	5.0	U	NC		6020
Cadmium	1.0	U	5.0	U	NC		6020
Chromium	0.41	J	0.590	J	NC		6020
Cobalt	0.32	J	1.29	J	NC		6020
Copper	3.8		3.26	J	NC		6020
Lead	0.30	J	0.910	J	NC		6020
Molybdenum	1.7	J	10	U	NC		6020
Nickel	0.85	J	10	U	NC		6020
Selenium	5.0	U	25	U	NC		6020
Silver	1.0	U	5.0	U	NC		6020
Thallium	0.23	J	1.10	J	NC		6020
Tungsten	0.27	J	50	U	NC		6020
Vanadium	1.6	J	1.50	J	NC		6020
Zinc	1.7	J	100	U	NC		6020

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

FORM VIII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 200-20573/11-A	06/30/2011 10:15	20573		50	50
LCS 200-20573/12-A	06/30/2011 10:15	20573		50	50
PB 200-20600/1-B	06/30/2011 10:15	20573		50	50
240-948-2	06/30/2011 10:15	20573		50	50
240-948-3	06/30/2011 10:15	20573		50	50
240-948-4	06/30/2011 10:15	20573		50	50
240-948-5	06/30/2011 10:15	20573		50	50
240-948-6	06/30/2011 10:15	20573		50	50
240-948-7	06/30/2011 10:15	20573		50	50
240-948-8	06/30/2011 10:15	20573		50	50
240-948-9	06/30/2011 10:15	20573		50	50
240-948-10	06/30/2011 10:15	20573		50	50
240-948-11	06/30/2011 10:15	20573		50	50
240-948-12	06/30/2011 10:15	20573		50	50
240-948-13	06/30/2011 10:15	20573		50	50
240-948-14	06/30/2011 10:15	20573		50	50
240-948-15	06/30/2011 10:15	20573		50	50
240-948-16	06/30/2011 10:15	20573		50	50
240-948-17	06/30/2011 10:15	20573		50	50
240-948-18	06/30/2011 10:15	20573		50	50
240-948-19	06/30/2011 10:15	20573		50	50
240-948-20	06/30/2011 10:15	20573		50	50

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 200-20573/11-A

Instrument Code: MEPCV3 II Batch No.: 20716

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470A

FORM III-IN

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: PB 200-20600/1-B

Instrument Code: MEPCV3 II Batch No.: 20716

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470A

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 200-20573/12-A

Lab Name: TestAmerica Burlington Job No.: 240-948-1

Sample Matrix: Water LCS Source: MEHGCCVw_00279

Water(ug/L)

Analyte	True	Found	C	%R	Limits		Q	Method
Mercury	1.00	1.06		106	85	115		7470A

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

FORM VIIA - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 200-20644/11-A	06/30/2011 12:00	20644		50	50
LCS 200-20644/12-A	06/30/2011 12:00	20644		50	50
240-948-2	06/30/2011 12:00	20644		50	50
240-948-3	06/30/2011 12:00	20644		50	50
240-948-4	06/30/2011 12:00	20644		50	50
240-948-5	06/30/2011 12:00	20644		50	50
240-948-6	06/30/2011 12:00	20644		50	50
240-948-7	06/30/2011 12:00	20644		50	50
240-948-8	06/30/2011 12:00	20644		50	50
240-948-9	06/30/2011 12:00	20644		50	50
240-948-10	06/30/2011 12:00	20644		50	50
240-948-11	06/30/2011 12:00	20644		50	50
240-948-12	06/30/2011 12:00	20644		50	50
240-948-13	06/30/2011 12:00	20644		50	50
240-948-14	06/30/2011 12:00	20644		50	50
240-948-15	06/30/2011 12:00	20644		50	50
240-948-16	06/30/2011 12:00	20644		50	50
240-948-17	06/30/2011 12:00	20644		50	50
240-948-18	06/30/2011 12:00	20644		50	50
240-948-19	06/30/2011 12:00	20644		50	50
240-948-20	06/30/2011 12:00	20644		50	50

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 200-20644/11-A

Instrument Code: MEPCV3 Batch No.: 20715

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470A

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 200-20644/12-A

Lab Name: TestAmerica Burlington Job No.: 240-948-1

Sample Matrix: Water LCS Source: MEHGCCVw_00279

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	1.00	0.901		90	85	115		7470A

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

FORM VIIA - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 200-20647/11-A	06/30/2011 18:06	20647		50	50
LCS 200-20647/12-A	06/30/2011 18:06	20647		50	50
240-948-21	06/30/2011 18:06	20647		50	50
240-948-22	06/30/2011 18:06	20647		50	50
240-948-23	06/30/2011 18:06	20647		50	50
240-948-24	06/30/2011 18:06	20647		50	50
240-948-25	06/30/2011 18:06	20647		50	50
240-948-26	06/30/2011 18:06	20647		50	50
240-948-27	06/30/2011 18:06	20647		50	50
240-948-28	06/30/2011 18:06	20647		50	50
PB 200-20646/1-B	06/30/2011 18:06	20647		50	50
240-948-21	06/30/2011 18:06	20647		50	50
240-948-22	06/30/2011 18:06	20647		50	50
240-948-23	06/30/2011 18:06	20647		50	50
240-948-24	06/30/2011 18:06	20647		50	50
240-948-25	06/30/2011 18:06	20647		50	50
240-948-26	06/30/2011 18:06	20647		50	50
240-948-27	06/30/2011 18:06	20647		50	50
240-948-28	06/30/2011 18:06	20647		50	50

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 200-20647/11-A

Instrument Code: MEPCV3 II Batch No.: 20826

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470A

FORM III-IN

3-IN
METHOD BLANK
METALS - DISSOLVED

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: PB 200-20646/1-B

Instrument Code: MEPCV3 II Batch No.: 20826

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.20	U		7470A

FORM III-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 200-20647/12-A

Lab Name: TestAmerica Burlington

Job No.: 240-948-1

Sample Matrix: Water

LCS Source: MEHGCCVw_00279

Analyte	Water(ug/L) True	Found	C	%R	Limits		Q	Method
Mercury	1.00	0.970		97	85	115		7470A

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

FORM VIIA - IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Instrument ID: METICPMS2 Method: 6020

Start Date: 06/30/2011 22:05 End Date: 07/01/2011 01:10

Lab Sample ID	D/F	Type	Time	Analytes																
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn
ITUNE 200-20702/1			22:05																	
STD0 200-20702/2 IC	1		22:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STDLL2 200-20702/3 IC	1		22:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 200-20702/4 IC	1		22:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 200-20702/5 IC	1		22:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 200-20702/6 IC	1		22:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 200-20702/7	1		22:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 200-20702/8	1		22:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 200-20702/9	1		23:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 200-20702/10	1		23:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 200-20702/11	1		23:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20702/12	1		23:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 200-20593/1-A	1	T	23:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 200-20593/2-A	1	T	23:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PB 200-20521/1-B	1	D	23:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-21	1	D	23:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-22	1	D	23:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-23	1	D	00:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-24	1	D	00:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-25	1	D	00:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-26	1	D	00:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-27	1	D	00:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 200-20702/23	1		00:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20702/24	1		00:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-28	1	D	00:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-28 SD	5	D	00:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 200-20702/27	1		01:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20702/28	1		01:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Prep Types
D = Dissolved
T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Analysis Date: 06/30/11

Lab ID: ITUNE 200-20702/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-6	6.0251	0.77	1.542	
Be-9	8.9522	0.78	0.791	
Mg-24	23.975	0.78	0.350	
Mg-25	24.9858	0.77	0.686	
Mg-26	25.9826	0.77	0.719	
Al-27	26.9915	0.75	0.564	
Sc-45	44.9759	0.74	0.373	
V-51	50.954	0.75	0.317	
Co-59	58.9332	0.77	0.428	
Y-89	88.9059	0.77	0.396	
In-113	112.9141	0.75	0.918	
In-115	114.9139	0.75	0.282	
Ba-137	136.9158	0.78	0.860	
Ce-140	139.9154	0.78	0.264	
Tb-159	158.9354	0.77	0.400	
Pb-206	206.0145	0.77	0.485	
Pb-207	206.9959	0.78	0.847	
Pb-208	208.0066	0.77	0.436	
Th-232	232.0881	0.77	0.536	
U-238	238.1008	0.78	0.889	

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEICPMSICVi_00018 Concentration Units: ug/L

CCV Source: MEICPMSCALi_00017

	ICV 200-20702/7 06/30/2011 22:50				CCV 200-20702/11 06/30/2011 23:17				CCV 200-20702/23 07/01/2011 00:37			
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	47.3		50.0	95	20.0		20.0	100	19.8		20.0	99
Arsenic	25.3		25.0	101	9.72		10.0	97	9.94		10.0	99
Barium	1320		1250	105	251		250	100	250		250	100
Beryllium	25.8		25.0	103	9.76		10.0	98	9.92		10.0	99
Cadmium	25.6		25.0	103	9.91		10.0	99	10.0		10.0	100
Chromium	50.0		50.0	100	19.9		20.0	99	19.9		20.0	100
Cobalt	127		125	101	49.6		50.0	99	49.4		50.0	99
Copper	51.5		50.0	103	20.6		20.0	103	20.4		20.0	102
Lead	24.5		25.0	98	9.72		10.0	97	9.68		10.0	97
Molybdenum	258		250	103	103		100	103	99.2		100	99
Nickel	51.1		50.0	102	20.3		20.0	102	20.4		20.0	102
Selenium	25.6		25.0	102	9.71		10.0	97	9.83		10.0	98
Silver	25.7		25.0	103	9.87		10.0	99	10.0		10.0	100
Thallium	24.1		25.0	96	9.61		10.0	96	9.55		10.0	96
Tungsten	24.1		25.0	96	9.95	J	10.0	99	9.74	J	10.0	97
Vanadium	49.9		50.0	100	19.6	J	20.0	98	19.9	J	20.0	100
Zinc	51.8		50.0	104	21.6		20.0	108	20.9		20.0	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEICPMSICVi_00018 Concentration Units: ug/L

CCV Source: MEICPMSCALi_00017

CCV 200-20702/27
07/01/2011 01:04

Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	19.6		20.0	98								
Arsenic	9.96		10.0	100								
Barium	248		250	99								
Beryllium	9.94		10.0	99								
Cadmium	9.91		10.0	99								
Chromium	20.0		20.0	100								
Cobalt	49.2		50.0	98								
Copper	20.4		20.0	102								
Lead	9.77		10.0	98								
Molybdenum	98.6		100	99								
Nickel	20.4		20.0	102								
Selenium	9.88		10.0	99								
Silver	10.0		10.0	100								
Thallium	9.52		10.0	95								
Tungsten	9.71	J	10.0	97								
Vanadium	19.7	J	20.0	98								
Zinc	20.7		20.0	103								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

		ICB 200-20702/8 06/30/2011 22:57		CCB 200-20702/12 06/30/2011 23:24		CCB 200-20702/24 07/01/2011 00:44		CCB 200-20702/28 07/01/2011 01:10	
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.547	J	0.119	J	0.0920	J	0.0850	J
Arsenic	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Barium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Beryllium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Cadmium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Chromium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	1.0	0.249	J	0.254	J	0.256	J	0.247	J
Copper	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Lead	1.0	0.158	J	0.160	J	0.157	J	0.157	J
Molybdenum	2.0	0.977	J	1.36	J	2.0	U	2.0	U
Nickel	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Selenium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Silver	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Thallium	2.0	0.224	J	0.245	J	0.225	J	0.224	J
Tungsten	10	0.402	J	0.199	J	10	U	10	U
Vanadium	20	20	U	20	U	20	U	20	U
Zinc	20	20	U	20	U	20	U	20	U

Italicized analytes were not requested for this sequence.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Lab Sample ID: ICSA 200-20702/9 Instrument ID: METICPMS2

Lab File ID: 063011-09.xml ICS Source: MEMSICSAW_00022

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.558**	
Arsenic		**0.183**	
Barium		**0.344**	
Beryllium		**-0.124**	
Cadmium		**0.624**	
Chromium		**1.31**	
Cobalt		**0.451**	
Copper		**1.14**	
Lead		**0.307**	
Molybdenum	**2000**	**2163**	**108**
Nickel		**-1.26**	
Selenium		**-0.786**	
Silver		**0.0150**	
Thallium		**0.241**	
Tungsten		**0.448**	
Vanadium		**0.430**	
Zinc		**0.0970**	
Aluminum	*100000*	*99547*	*100*
Boron		*10.1*	
Calcium	*100000*	*106500*	*107*
Iron	*100000*	*101050*	*101*
Magnesium	*100000*	*109233*	*109*
Manganese		*0.321*	
Potassium	*100000*	*113633*	*114*
Sodium	*100000*	*108967*	*109*
Th		*0.410*	
U		*0.327*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Lab Sample ID: ICSAB 200-20702/10 Instrument ID: METICPMS2

Lab File ID: 063011-09.xml ICS Source: MEMSABw_00025

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony	100	100	100
Arsenic	20.0	18.7	93
Barium	500	521	104
Beryllium	20.0	18.6	93
Cadmium	20.0	19.0	95
Chromium	40.0	39.9	100
Cobalt	50.0	47.1	94
Copper	100	90.9	91
Lead	20.0	21.1	105
Molybdenum	2000	2119	106
Nickel	100	91.7	92
Selenium	20.0	18.4	92
Silver	20.0	18.1	91
Thallium	20.0	20.5	102
Tungsten	20.0	21.6	108
Vanadium	40.0	40.2	100
Zinc	100	90.8	91
Aluminum	*100000*	*96857*	*97*
Boron	*200*	*223*	*112*
Calcium	*100000*	*104567*	*105*
Iron	*100000*	*99200*	*99*
Magnesium	*100000*	*107067*	*107*
Manganese	*40.0*	*40.5*	*101*
Potassium	*100000*	*111700*	*112*
Sodium	*100000*	*106833*	*107*
Th	*20.0*	*21.3*	*106*
U	*20.0*	*22.5*	*113*

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

FORM IVA-IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 06/30/2011 End Date: 07/01/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element In-115	Q	Element Tb-159	Q
STD0 200-20702/2 IC	22:17	100		100		100		100		100	
STDLL2 200-20702/3	22:24	99		100		100		100		100	
STD1 200-20702/4 IC	22:31	100		100		100		101		100	
STD2 200-20702/5 IC	22:37	99		100		99		99		100	
STD3 200-20702/6 IC	22:44	96		96		95		94		97	
ICV 200-20702/7	22:50	99		100		99		98		100	
ICB 200-20702/8	22:57	100		99		99		98		99	
ICSA 200-20702/9	23:04	83		91		91		91		93	
ICSAB 200-20702/10	23:11	79		87		88		91		94	
CCV 200-20702/11	23:17	91		97		103		105		108	
CCB 200-20702/12	23:24	93		98		102		104		107	
MB 200-20593/1-A	23:31	99		102		106		106		108	
LCS 200-20593/2-A	23:37	100		102		104		103		107	
PB 200-20521/1-B	23:44	101		101		103		103		106	
240-948-21	23:51	98		101		102		100		105	
240-948-22	23:57	98		99		101		98		105	
240-948-23	00:04	100		101		102		100		105	
240-948-24	00:10	103		103		104		101		106	
240-948-25	00:17	104		105		105		102		107	
240-948-26	00:24	105		106		106		102		107	
240-948-27	00:30	106		108		107		104		108	
CCV 200-20702/23	00:37	110		107		109		108		109	
CCB 200-20702/24	00:44	108		106		107		107		107	
240-948-28	00:50	106		107		107		103		107	
240-948-28 SD	00:57	113		111		112		111		112	
CCV 200-20702/27	01:04	111		108		109		109		109	
CCB 200-20702/28	01:10	108		106		107		107		107	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 06/30/2011 End Date: 07/01/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Bi-209	Q	Element	Q	Element	Q	Element	Q	Element	Q
STD0 200-20702/2 IC	22:17	100									
STDLL2 200-20702/3	22:24	100									
STD1 200-20702/4 IC	22:31	100									
STD2 200-20702/5 IC	22:37	99									
STD3 200-20702/6 IC	22:44	91									
ICV 200-20702/7	22:50	96									
ICB 200-20702/8	22:57	99									
ICSA 200-20702/9	23:04	81									
ICSAB 200-20702/10	23:11	83									
CCV 200-20702/11	23:17	108									
CCB 200-20702/12	23:24	108									
MB 200-20593/1-A	23:31	106									
LCS 200-20593/2-A	23:37	100									
PB 200-20521/1-B	23:44	103									
240-948-21	23:51	93									
240-948-22	23:57	92									
240-948-23	00:04	93									
240-948-24	00:10	93									
240-948-25	00:17	94									
240-948-26	00:24	94									
240-948-27	00:30	94									
CCV 200-20702/23	00:37	107									
CCB 200-20702/24	00:44	108									
240-948-28	00:50	93									
240-948-28 SD	00:57	107									
CCV 200-20702/27	01:04	106									
CCB 200-20702/28	01:10	107									

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Instrument ID: METICPMS2 Method: 6020

Start Date: 06/30/2011 22:05 End Date: 07/01/2011 07:19

Lab Sample ID	D/F	Type	Time	Analytes																
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn
ITUNE 200-20771/1			22:05																	
STD0 200-20771/2 IC	1		02:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STDLL2 200-20771/3 IC	1		03:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 200-20771/4 IC	1		03:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 200-20771/5 IC	1		03:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 200-20771/6 IC	1		03:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 200-20771/7	1		03:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 200-20771/8	1		03:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 200-20771/9	1		03:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 200-20771/10	1		03:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 200-20771/11	1		03:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20771/12	1		04:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 200-20583/1-A	1	T	04:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 200-20583/2-A	1	T	04:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
PB 200-20520/1-C	1	D	04:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-2	1	D	04:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-3	1	D	04:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-4	1	D	04:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-5	1	D	04:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-6	1	D	04:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-7	1	D	05:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-8	1	D	05:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 200-20771/23	1		05:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20771/24	1		05:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-9	1	D	05:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-10	1	D	05:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-11	1	D	05:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-12	1	D	05:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-13	1	D	05:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-14	1	D	06:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-15	1	D	06:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-16	1	D	06:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-17	1	D	06:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-18	1	D	06:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 200-20771/35	1		06:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20771/36	1		06:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-19	1	D	06:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-20	1	D	06:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			07:06																	
CCV 200-20771/40	1		07:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20771/41	1		07:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Instrument ID: METICPMS2 Method: 6020

Start Date: 06/30/2011 22:05 End Date: 07/01/2011 07:19

Prep Types
D = Dissolved
T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Analysis Date: 06/30/11

Lab ID: ITUNE 200-20771/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-6	6.0251	0.77	1.542	
Be-9	8.9522	0.78	0.791	
Mg-24	23.975	0.78	0.350	
Mg-25	24.9858	0.77	0.686	
Mg-26	25.9826	0.77	0.719	
Al-27	26.9915	0.75	0.564	
Sc-45	44.9759	0.74	0.373	
V-51	50.954	0.75	0.317	
Co-59	58.9332	0.77	0.428	
Y-89	88.9059	0.77	0.396	
In-113	112.9141	0.75	0.918	
In-115	114.9139	0.75	0.282	
Ba-137	136.9158	0.78	0.860	
Ce-140	139.9154	0.78	0.264	
Tb-159	158.9354	0.77	0.400	
Pb-206	206.0145	0.77	0.485	
Pb-207	206.9959	0.78	0.847	
Pb-208	208.0066	0.77	0.436	
Th-232	232.0881	0.77	0.536	
U-238	238.1008	0.78	0.889	

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEICPMSICVi_00018 Concentration Units: ug/L

CCV Source: MEICPMSCALi_00017

	ICV 200-20771/7 07/01/2011 03:33				CCV 200-20771/11 07/01/2011 03:59				CCV 200-20771/23 07/01/2011 05:19			
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	47.1		50.0	94	19.9		20.0	99	19.8		20.0	99
Arsenic	25.4		25.0	101	9.72		10.0	97	9.83		10.0	98
Barium	1320		1250	106	253		250	101	251		250	101
Beryllium	25.9		25.0	103	9.89		10.0	99	9.78		10.0	98
Cadmium	26.2		25.0	105	10.1		10.0	101	10.1		10.0	101
Chromium	50.3		50.0	101	19.7		20.0	99	19.8		20.0	99
Cobalt	127		125	102	49.3		50.0	99	48.6		50.0	97
Copper	51.9		50.0	104	20.6		20.0	103	20.1		20.0	101
Lead	24.5		25.0	98	9.71		10.0	97	9.63		10.0	96
Molybdenum	258		250	103	103		100	103	98.5		100	98
Nickel	51.1		50.0	102	20.2		20.0	101	20.0		20.0	100
Selenium	26.0		25.0	104	10.0		10.0	100	10.2		10.0	102
Silver	25.6		25.0	102	9.75		10.0	98	9.76		10.0	98
Thallium	24.1		25.0	96	9.59		10.0	96	9.48		10.0	95
Tungsten	24.2		25.0	97	9.94	J	10.0	99	9.70	J	10.0	97
Vanadium	50.2		50.0	100	19.5	J	20.0	98	19.6	J	20.0	98
Zinc	51.2		50.0	102	21.0		20.0	105	20.3		20.0	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEICPMSICVi_00018 Concentration Units: ug/L

CCV Source: MEICPMSCALi_00017

	CCV 200-20771/35 07/01/2011 06:39				CCV 200-20771/40 07/01/2011 07:12							
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	19.8		20.0	99	19.8		20.0	99				
Arsenic	9.93		10.0	99	10.0		10.0	100				
Barium	251		250	100	251		250	100				
Beryllium	9.87		10.0	99	10.2		10.0	102				
Cadmium	9.96		10.0	100	10.2		10.0	102				
Chromium	19.8		20.0	99	19.8		20.0	99				
Cobalt	49.1		50.0	98	49.0		50.0	98				
Copper	20.2		20.0	101	20.2		20.0	101				
Lead	9.71		10.0	97	9.73		10.0	97				
Molybdenum	99.1		100	99	100		100	100				
Nickel	20.4		20.0	102	20.2		20.0	101				
Selenium	10.2		10.0	102	10.1		10.0	101				
Silver	9.97		10.0	100	10.0		10.0	100				
Thallium	9.51		10.0	95	9.59		10.0	96				
Tungsten	9.67	J	10.0	97	9.65	J	10.0	97				
Vanadium	19.5	J	20.0	97	19.6	J	20.0	98				
Zinc	20.4		20.0	102	20.2		20.0	101				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

		ICB 200-20771/8 07/01/2011 03:39		CCB 200-20771/12 07/01/2011 04:06		CCB 200-20771/24 07/01/2011 05:26		CCB 200-20771/36 07/01/2011 06:46	
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.533	J	0.134	J	0.110	J	0.113	J
Arsenic	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Barium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Beryllium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Cadmium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Chromium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	1.0	0.139	J	0.148	J	0.144	J	0.151	J
Copper	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Lead	1.0	0.164	J	0.166	J	0.164	J	0.167	J
Molybdenum	2.0	0.933	J	1.48	J	2.0	U	2.0	U
Nickel	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Selenium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Silver	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Thallium	2.0	0.238	J	0.259	J	0.242	J	0.240	J
Tungsten	10	0.365	J	0.182	J	10	U	10	U
Vanadium	20	20	U	20	U	20	U	20	U
Zinc	20	20	U	20	U	20	U	20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

		CCB 200-20771/41 07/01/2011 07:19							
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.110	J						
Arsenic	5.0	0.0990	J						
Barium	5.0	5.0	U						
Beryllium	1.0	1.0	U						
Cadmium	1.0	1.0	U						
Chromium	2.0	2.0	U						
Cobalt	1.0	0.153	J						
Copper	2.0	2.0	U						
Lead	1.0	0.167	J						
Molybdenum	2.0	2.0	U						
Nickel	2.0	2.0	U						
Selenium	5.0	0.397	J						
Silver	1.0	1.0	U						
Thallium	2.0	0.240	J						
Tungsten	10	10	U						
Vanadium	20	20	U						
Zinc	20	20	U						

Italicized analytes were not requested for this sequence.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Lab Sample ID: ICSA 200-20771/9 Instrument ID: METICPMS2

Lab File ID: 063011-10.xml ICS Source: MEMSICSAW_00022

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.600**	
Arsenic		**0.0920**	
Barium		**0.366**	
Beryllium		**-0.0760**	
Cadmium		**0.579**	
Chromium		**1.31**	
Cobalt		**0.319**	
Copper		**1.03**	
Lead		**0.314**	
Molybdenum	**2000**	**2387**	**119**
Nickel		**-1.05**	
Selenium		**-0.843**	
Silver		**0.0410**	
Thallium		**0.257**	
Tungsten		**0.444**	
Vanadium		**0.343**	
Zinc		**-0.568**	
Aluminum	*100000*	*99597*	*100*
Boron		*10.4*	
Calcium	*100000*	*107667*	*108*
Iron	*100000*	*101667*	*102*
Magnesium	*100000*	*109900*	*110*
Manganese		*0.262*	
Potassium	*100000*	*114867*	*115*
Sodium	*100000*	*109233*	*109*
Th		*0.478*	
U		*0.339*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Lab Sample ID: ICSAB 200-20771/10 Instrument ID: METICPMS2

Lab File ID: 063011-10.xml ICS Source: MEMSABw_00025

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony	**100**	**101**	**101**
Arsenic	**20.0**	**18.7**	**94**
Barium	**500**	**526**	**105**
Beryllium	**20.0**	**19.0**	**95**
Cadmium	**20.0**	**19.1**	**96**
Chromium	**40.0**	**40.0**	**100**
Cobalt	**50.0**	**47.0**	**94**
Copper	**100**	**92.0**	**92**
Lead	**20.0**	**20.9**	**104**
Molybdenum	**2000**	**2313**	**116**
Nickel	**100**	**91.7**	**92**
Selenium	**20.0**	**18.0**	**90**
Silver	**20.0**	**18.0**	**90**
Thallium	**20.0**	**20.3**	**101**
Tungsten	**20.0**	**21.5**	**108**
Vanadium	**40.0**	**39.7**	**99**
Zinc	**100**	**91.0**	**91**
Aluminum	*100000*	*97283*	*97*
Boron	*200*	*227*	*113*
Calcium	*100000*	*105300*	*105*
Iron	*100000*	*99100*	*99*
Magnesium	*100000*	*108300*	*108*
Manganese	*40.0*	*40.6*	*101*
Potassium	*100000*	*113067*	*113*
Sodium	*100000*	*107433*	*107*
Th	*20.0*	*21.2*	*106*
U	*20.0*	*22.3*	*112*

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

FORM IVA-IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 07/01/2011 End Date: 07/01/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element In-115	Q	Element Tb-159	Q
STD0 200-20771/2 IC	02:59	100		100		100		100		100	
STDLL2 200-20771/3	03:06	100		99		100		100		100	
STD1 200-20771/4 IC	03:13	101		101		101		101		100	
STD2 200-20771/5 IC	03:19	101		100		100		100		100	
STD3 200-20771/6 IC	03:26	96		97		96		94		97	
ICV 200-20771/7	03:33	99		100		99		98		99	
ICB 200-20771/8	03:39	99		100		99		99		99	
ICSA 200-20771/9	03:46	80		88		89		90		92	
ICSAB 200-20771/10	03:53	77		86		88		90		94	
CCV 200-20771/11	03:59	90		97		102		104		107	
CCB 200-20771/12	04:06	91		96		100		103		105	
MB 200-20583/1-A	04:13	97		100		104		104		107	
LCS 200-20583/2-A	04:19	97		100		102		102		105	
PB 200-20520/1-C	04:26	97		99		100		101		104	
240-948-2	04:33	95		98		100		98		103	
240-948-3	04:39	96		98		99		97		103	
240-948-4	04:46	97		99		100		98		104	
240-948-5	04:53	100		100		101		99		105	
240-948-6	04:59	100		101		102		100		105	
240-948-7	05:06	102		102		103		100		105	
240-948-8	05:13	103		103		104		101		106	
CCV 200-20771/23	05:19	103		103		105		105		107	
CCB 200-20771/24	05:26	103		102		104		105		106	
240-948-9	05:33	101		102		103		100		104	
240-948-10	05:39	103		104		104		101		106	
240-948-11	05:46	103		106		105		102		105	
240-948-12	05:53	104		105		106		103		107	
240-948-13	05:59	104		106		106		103		107	
240-948-14	06:06	105		107		108		104		107	
240-948-15	06:12	105		107		108		104		108	
240-948-16	06:19	106		108		108		105		108	
240-948-17	06:26	105		108		109		105		107	
240-948-18	06:33	106		108		108		105		108	
CCV 200-20771/35	06:39	105		106		108		107		106	
CCB 200-20771/36	06:46	104		104		106		105		103	
240-948-19	06:53	103		106		106		102		104	
240-948-20	06:59	104		106		107		103		105	
CCV 200-20771/40	07:12	105		107		106		105		103	
CCB 200-20771/41	07:19	105		104		104		104		102	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 07/01/2011 End Date: 07/01/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Bi-209	Q	Element	Q	Element	Q	Element	Q	Element	Q
STD0 200-20771/2 IC	02:59	100									
STDLL2 200-20771/3	03:06	100									
STD1 200-20771/4 IC	03:13	100									
STD2 200-20771/5 IC	03:19	98									
STD3 200-20771/6 IC	03:26	90									
ICV 200-20771/7	03:33	94									
ICB 200-20771/8	03:39	98									
ICSA 200-20771/9	03:46	81									
ICSAB 200-20771/10	03:53	83									
CCV 200-20771/11	03:59	105									
CCB 200-20771/12	04:06	105									
MB 200-20583/1-A	04:13	103									
LCS 200-20583/2-A	04:19	97									
PB 200-20520/1-C	04:26	99									
240-948-2	04:33	90									
240-948-3	04:39	90									
240-948-4	04:46	91									
240-948-5	04:53	91									
240-948-6	04:59	91									
240-948-7	05:06	91									
240-948-8	05:13	91									
CCV 200-20771/23	05:19	103									
CCB 200-20771/24	05:26	104									
240-948-9	05:33	89									
240-948-10	05:39	90									
240-948-11	05:46	89									
240-948-12	05:53	90									
240-948-13	05:59	90									
240-948-14	06:06	90									
240-948-15	06:12	90									
240-948-16	06:19	90									
240-948-17	06:26	91									
240-948-18	06:33	90									
CCV 200-20771/35	06:39	101									
CCB 200-20771/36	06:46	100									
240-948-19	06:53	87									
240-948-20	06:59	88									
CCV 200-20771/40	07:12	96									
CCB 200-20771/41	07:19	97									

FORM XV - IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Instrument ID: METICPMS2 Method: 6020

Start Date: 06/30/2011 22:05 End Date: 07/01/2011 12:36

Lab Sample ID	D/F	Type	Time	Analytes																
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn
ITUNE 200-20747/1			22:05																	
STD0 200-20747/2 IC	1		07:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STDLL2 200-20747/3 IC	1		07:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 200-20747/4 IC	1		07:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 200-20747/5 IC	1		07:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 200-20747/6 IC	1		07:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 200-20747/7	1		08:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 200-20747/8	1		08:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 200-20747/9	1		08:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 200-20747/10	1		08:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 200-20747/11	1		08:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20747/12	1		08:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 200-20577/1-A	1	T	08:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 200-20577/2-A	1	T	08:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-2	1	T	08:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-3	1	T	09:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-4	1	T	09:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-5	1	T	09:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-6	1	T	09:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-7	1	T	09:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-8	1	T	09:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-9	1	T	09:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 200-20747/23	1		09:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20747/24	1		09:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-10	1	T	10:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-11	1	T	10:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-12	1	T	10:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-13	1	T	10:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-14	1	T	10:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-15	1	T	10:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-16	1	T	10:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-17	1	T	10:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-18	1	T	10:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-19	1	T	11:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 200-20747/35	1		11:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20747/36	1		11:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-20	1	T	11:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-20 SD	5	T	11:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 200-20579/1-A	1	T	11:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 200-20579/2-A	1	T	11:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-21	1	T	11:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-22	1	T	11:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Instrument ID: METICPMS2 Method: 6020

Start Date: 06/30/2011 22:05 End Date: 07/01/2011 12:36

Lab Sample ID	D/F	Type	Time	Analytes																
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn
240-948-23	1	T	12:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-24	1	T	12:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-25	1	T	12:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-26	1	T	12:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 200-20747/47	1		12:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20747/48	1		12:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Prep Types

T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Analysis Date: 06/30/11

Lab ID: ITUNE 200-20747/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-6	6.0251	0.77	1.542	
Be-9	8.9522	0.78	0.791	
Mg-24	23.975	0.78	0.350	
Mg-25	24.9858	0.77	0.686	
Mg-26	25.9826	0.77	0.719	
Al-27	26.9915	0.75	0.564	
Sc-45	44.9759	0.74	0.373	
V-51	50.954	0.75	0.317	
Co-59	58.9332	0.77	0.428	
Y-89	88.9059	0.77	0.396	
In-113	112.9141	0.75	0.918	
In-115	114.9139	0.75	0.282	
Ba-137	136.9158	0.78	0.860	
Ce-140	139.9154	0.78	0.264	
Tb-159	158.9354	0.77	0.400	
Pb-206	206.0145	0.77	0.485	
Pb-207	206.9959	0.78	0.847	
Pb-208	208.0066	0.77	0.436	
Th-232	232.0881	0.77	0.536	
U-238	238.1008	0.78	0.889	

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEICPMSICVi_00018 Concentration Units: ug/L

CCV Source: MEICPMSCALi_00017

	ICV 200-20747/7 07/01/2011 08:02				CCV 200-20747/11 07/01/2011 08:28				CCV 200-20747/23 07/01/2011 09:48			
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	47.5		50.0	95	20.0		20.0	100	19.8		20.0	99
Arsenic	25.5		25.0	102	9.72		10.0	97	9.91		10.0	99
Barium	1320		1250	105	253		250	101	250		250	100
Beryllium	25.9		25.0	103	9.92		10.0	99	9.93		10.0	99
Cadmium	26.1		25.0	104	10.1		10.0	101	10.0		10.0	100
Chromium	50.3		50.0	101	19.8		20.0	99	19.9		20.0	100
Cobalt	128		125	102	49.5		50.0	99	49.1		50.0	98
Copper	51.7		50.0	103	20.2		20.0	101	20.3		20.0	101
Lead	24.6		25.0	98	9.68		10.0	97	9.66		10.0	97
Molybdenum	257		250	103	103		100	103	99.9		100	100
Nickel	51.9		50.0	104	20.2		20.0	101	20.4		20.0	102
Selenium	26.0		25.0	104	9.97		10.0	100	10.1		10.0	101
Silver	25.7		25.0	103	9.91		10.0	99	9.93		10.0	99
Thallium	24.2		25.0	97	9.51		10.0	95	9.45		10.0	95
Tungsten	24.1		25.0	96	10.0		10.0	100	9.87	J	10.0	99
Vanadium	50.1		50.0	100	19.8	J	20.0	99	19.7	J	20.0	99
Zinc	51.1		50.0	102	20.9		20.0	104	20.5		20.0	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEICPMSICVi_00018 Concentration Units: ug/L

CCV Source: MEICPMSCALi_00017

	CCV 200-20747/35 07/01/2011 11:09				CCV 200-20747/47 07/01/2011 12:29							
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	19.8		20.0	99	19.8		20.0	99				
Arsenic	10.0		10.0	100	9.91		10.0	99				
Barium	252		250	101	254		250	101				
Beryllium	10.0		10.0	100	9.94		10.0	99				
Cadmium	10.1		10.0	101	10.1		10.0	101				
Chromium	20.2		20.0	101	20.2		20.0	101				
Cobalt	49.5		50.0	99	49.8		50.0	100				
Copper	20.6		20.0	103	20.5		20.0	102				
Lead	9.68		10.0	97	9.69		10.0	97				
Molybdenum	100		100	100	100		100	100				
Nickel	20.5		20.0	102	20.4		20.0	102				
Selenium	10.1		10.0	101	9.97		10.0	100				
Silver	10.1		10.0	101	10.1		10.0	101				
Thallium	9.47		10.0	95	9.48		10.0	95				
Tungsten	9.87	J	10.0	99	9.82	J	10.0	98				
Vanadium	20.0		20.0	100	20.0		20.0	100				
Zinc	20.5		20.0	102	20.6		20.0	103				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

		ICB 200-20747/8 07/01/2011 08:08		CCB 200-20747/12 07/01/2011 08:35		CCB 200-20747/24 07/01/2011 09:55		CCB 200-20747/36 07/01/2011 11:16	
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Antimony	2.0	0.479	J	0.0820	J	2.0	U	2.0	U
Arsenic	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Barium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Beryllium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Cadmium	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Chromium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cobalt	1.0	0.183	J	0.183	J	0.188	J	0.142	J
Copper	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Lead	1.0	0.144	J	0.145	J	0.145	J	0.136	J
Molybdenum	2.0	1.01	J	1.53	J	2.0	U	2.0	U
Nickel	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Selenium	5.0	5.0	U	5.0	U	5.0	U	5.0	U
Silver	1.0	1.0	U	1.0	U	1.0	U	1.0	U
Thallium	2.0	0.223	J	0.244	J	0.225	J	0.215	J
Tungsten	10	0.345	J	0.177	J	10	U	10	U
Vanadium	20	20	U	20	U	20	U	20	U
Zinc	20	20	U	20	U	20	U	20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

		CCB 200-20747/48 07/01/2011 12:36							
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Antimony	2.0	2.0	U						
Arsenic	5.0	5.0	U						
Barium	5.0	5.0	U						
Beryllium	1.0	1.0	U						
Cadmium	1.0	1.0	U						
Chromium	2.0	2.0	U						
Cobalt	1.0	0.155	J						
Copper	2.0	2.0	U						
Lead	1.0	0.138	J						
Molybdenum	2.0	2.0	U						
Nickel	2.0	2.0	U						
Selenium	5.0	5.0	U						
Silver	1.0	1.0	U						
Thallium	2.0	0.220	J						
Tungsten	10	10	U						
Vanadium	20	20	U						
Zinc	20	20	U						

Italicized analytes were not requested for this sequence.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Lab Sample ID: ICSA 200-20747/9 Instrument ID: METICPMS2

Lab File ID: 063011-11.xml ICS Source: MEMSICSAW_00022

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.537**	
Arsenic		**-0.0420**	
Barium		**0.606**	
Beryllium		**-0.0440**	
Cadmium		**0.646**	
Chromium		**1.32**	
Cobalt		**0.331**	
Copper		**1.08**	
Lead		**0.289**	
Molybdenum	**2000**	**2370**	**119**
Nickel		**-2.63**	
Selenium		**-1.01**	
Silver		**0.0100**	
Thallium		**0.237**	
Tungsten		**0.431**	
Vanadium		**0.513**	
Zinc		**-0.498**	
Aluminum	*100000*	*100300*	*100*
Boron		*9.70*	
Calcium	*100000*	*107733*	*108*
Iron	*100000*	*101900*	*102*
Magnesium	*100000*	*109933*	*110*
Manganese		*0.226*	
Potassium	*100000*	*113833*	*114*
Sodium	*100000*	*108900*	*109*
Th		*0.486*	
U		*0.343*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Lab Sample ID: ICSAB 200-20747/10 Instrument ID: METICPMS2

Lab File ID: 063011-11.xml ICS Source: MEMSABw_00025

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony	**100**	**102**	**102**
Arsenic	**20.0**	**18.7**	**94**
Barium	**500**	**527**	**105**
Beryllium	**20.0**	**18.9**	**94**
Cadmium	**20.0**	**19.5**	**98**
Chromium	**40.0**	**40.5**	**101**
Cobalt	**50.0**	**47.5**	**95**
Copper	**100**	**92.1**	**92**
Lead	**20.0**	**21.0**	**105**
Molybdenum	**2000**	**2306**	**115**
Nickel	**100**	**92.7**	**93**
Selenium	**20.0**	**18.3**	**91**
Silver	**20.0**	**18.2**	**91**
Thallium	**20.0**	**20.3**	**101**
Tungsten	**20.0**	**21.7**	**109**
Vanadium	**40.0**	**40.3**	**101**
Zinc	**100**	**91.8**	**92**
Aluminum	*100000*	*97877*	*98*
Boron	*200*	*227*	*113*
Calcium	*100000*	*106400*	*106*
Iron	*100000*	*100227*	*100*
Magnesium	*100000*	*107000*	*107*
Manganese	*40.0*	*40.8*	*102*
Potassium	*100000*	*111700*	*112*
Sodium	*100000*	*106367*	*106*
Th	*20.0*	*21.8*	*109*
U	*20.0*	*23.3*	*117*

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

FORM IVA-IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 07/01/2011 End Date: 07/01/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element In-115	Q	Element Tb-159	Q
STD0 200-20747/2 IC	07:28	100		100		100		100		100	
STDLL2 200-20747/3	07:35	99		100		99		99		99	
STD1 200-20747/4 IC	07:42	100		99		99		99		99	
STD2 200-20747/5 IC	07:48	97		97		97		96		97	
STD3 200-20747/6 IC	07:55	93		95		94		93		95	
ICV 200-20747/7	08:02	95		98		98		96		98	
ICB 200-20747/8	08:08	95		96		97		97		98	
ICSA 200-20747/9	08:15	77		85		87		88		92	
ICSAB 200-20747/10	08:22	74		82		85		87		93	
CCV 200-20747/11	08:28	85		94		98		101		106	
CCB 200-20747/12	08:35	85		92		96		99		103	
MB 200-20577/1-A	08:42	89		95		98		99		104	
LCS 200-20577/2-A	08:48	91		96		98		98		105	
240-948-2	08:55	86		92		95		93		101	
240-948-3	09:02	89		93		96		94		102	
240-948-4	09:09	89		93		95		94		102	
240-948-5	09:15	89		93		96		93		102	
240-948-6	09:22	90		94		97		94		103	
240-948-7	09:29	90		94		96		94		102	
240-948-8	09:35	89		95		98		94		103	
240-948-9	09:42	92		96		99		97		105	
CCV 200-20747/23	09:48	96		99		102		104		108	
CCB 200-20747/24	09:55	95		97		100		102		105	
240-948-10	10:02	91		95		97		94		102	
240-948-11	10:08	93		98		100		97		103	
240-948-12	10:15	94		98		101		97		105	
240-948-13	10:22	93		98		100		97		104	
240-948-14	10:29	94		99		101		98		105	
240-948-15	10:35	94		101		102		99		106	
240-948-16	10:42	95		100		102		99		106	
240-948-17	10:49	94		100		102		98		105	
240-948-18	10:55	95		101		102		98		106	
240-948-19	11:02	94		99		101		98		105	
CCV 200-20747/35	11:09	98		102		104		105		108	
CCB 200-20747/36	11:16	97		100		103		104		106	
240-948-20	11:23	94		98		100		96		104	
240-948-20 SD	11:29	100		106		107		107		110	
MB 200-20579/1-A	11:36	107		110		110		109		112	
LCS 200-20579/2-A	11:42	99		101		101		100		105	
240-948-21	11:49	92		98		99		95		103	
240-948-22	11:56	95		100		101		97		104	
240-948-23	12:02	95		100		102		98		105	

FORM XV - IN

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 07/01/2011 End Date: 07/01/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Bi-209	Q	Element	Q	Element	Q	Element	Q	Element	Q
STD0 200-20747/2 IC	07:28	100									
STDLL2 200-20747/3	07:35	99									
STD1 200-20747/4 IC	07:42	99									
STD2 200-20747/5 IC	07:48	96									
STD3 200-20747/6 IC	07:55	91									
ICV 200-20747/7	08:02	95									
ICB 200-20747/8	08:08	101									
ICSA 200-20747/9	08:15	84									
ICSAB 200-20747/10	08:22	85									
CCV 200-20747/11	08:28	108									
CCB 200-20747/12	08:35	108									
MB 200-20577/1-A	08:42	104									
LCS 200-20577/2-A	08:48	101									
240-948-2	08:55	93									
240-948-3	09:02	95									
240-948-4	09:09	93									
240-948-5	09:15	94									
240-948-6	09:22	94									
240-948-7	09:29	93									
240-948-8	09:35	94									
240-948-9	09:42	96									
CCV 200-20747/23	09:48	111									
CCB 200-20747/24	09:55	111									
240-948-10	10:02	93									
240-948-11	10:08	94									
240-948-12	10:15	94									
240-948-13	10:22	94									
240-948-14	10:29	95									
240-948-15	10:35	97									
240-948-16	10:42	96									
240-948-17	10:49	95									
240-948-18	10:55	95									
240-948-19	11:02	94									
CCV 200-20747/35	11:09	110									
CCB 200-20747/36	11:16	111									
240-948-20	11:23	94									
240-948-20 SD	11:29	110									
MB 200-20579/1-A	11:36	112									
LCS 200-20579/2-A	11:42	101									
240-948-21	11:49	93									
240-948-22	11:56	94									
240-948-23	12:02	94									

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 07/01/2011 End Date: 07/01/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element In-115	Q	Element Tb-159	Q
240-948-24	12:09	95		101		102		98		105	
240-948-25	12:16	95		100		102		98		105	
240-948-26	12:22	96		102		103		99		106	
CCV 200-20747/47	12:29	99		102		105		105		108	
CCB 200-20747/48	12:36	99		102		104		104		106	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 07/01/2011 End Date: 07/01/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Bi-209	Q	Element	Q	Element	Q	Element	Q	Element	Q
240-948-24	12:09	95									
240-948-25	12:16	95									
240-948-26	12:22	95									
CCV 200-20747/47	12:29	110									
CCB 200-20747/48	12:36	110									

FORM XV - IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Instrument ID: METICPMS2 Method: 6020

Start Date: 07/01/2011 15:57 End Date: 07/01/2011 18:05

Lab Sample ID	D/F	Type	Time	Analytes																
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn
ITUNE 200-20765/1			15:57																	
STD0 200-20765/2 IC	1		16:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STDLL2 200-20765/3 IC	1		16:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 200-20765/4 IC	1		16:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 200-20765/5 IC	1		16:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 200-20765/6 IC	1		16:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 200-20765/7	1		16:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 200-20765/8	1		16:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 200-20765/9	1		17:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 200-20765/10	1		17:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 200-20765/11	1		17:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20765/12	1		17:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-27	1	T	17:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-28	1	T	17:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
240-948-28 SD	5	T	17:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			17:51																	
CCV 200-20765/17	1		17:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 200-20765/18	1		18:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Prep Types

T = Total/NA

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Analysis Date: 07/01/11

Lab ID: ITUNE 200-20765/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-6	6.0651	0.73	0.997	
Be-9	8.9922	0.77	0.968	
Mg-24	24.005	0.75	0.699	
Mg-25	25.0158	0.72	0.780	
Mg-26	26.0126	0.72	1.646	
Al-27	27.0215	0.72	1.270	
Sc-45	45.0059	0.72	0.625	
V-51	50.994	0.72	0.427	
Co-59	58.9532	0.73	0.895	
Y-89	88.9459	0.73	0.263	
In-113	112.9441	0.73	1.436	
In-115	114.9539	0.73	0.538	
Ba-137	136.9458	0.73	0.452	
Ce-140	139.9354	0.74	0.305	
Tb-159	158.9554	0.75	0.348	
Pb-206	206.0345	0.74	0.618	
Pb-207	207.0359	0.75	0.687	
Pb-208	208.0266	0.74	0.453	
Th-232	232.1081	0.73	0.744	
U-238	238.1208	0.73	0.782	

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEICPMSICVi_00018 Concentration Units: ug/L

CCV Source: MEICPMSCALi_00017

	ICV 200-20765/7 07/01/2011 16:48				CCV 200-20765/11 07/01/2011 17:16				CCV 200-20765/17 07/01/2011 17:58			
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	47.7		50.0	95	19.7		20.0	99	19.6		20.0	98
Arsenic	25.0		25.0	100	9.85		10.0	99	9.85		10.0	99
Barium	1310		1250	105	250		250	100	248		250	99
Beryllium	26.0		25.0	104	9.94		10.0	99	9.99		10.0	100
Cadmium	26.1		25.0	104	9.98		10.0	100	10.0		10.0	100
Chromium	49.7		50.0	99	19.7		20.0	99	19.8		20.0	99
Cobalt	126		125	101	49.1		50.0	98	48.9		50.0	98
Copper	51.6		50.0	103	20.2		20.0	101	19.9		20.0	100
Lead	24.6		25.0	98	9.74		10.0	97	9.66		10.0	97
Molybdenum	259		250	103	103		100	103	98.7		100	99
Nickel	51.0		50.0	102	20.3		20.0	101	20.1		20.0	100
Selenium	25.6		25.0	103	10.1		10.0	101	10.0		10.0	100
Silver	25.8		25.0	103	9.91		10.0	99	9.97		10.0	100
Thallium	24.3		25.0	97	9.63		10.0	96	9.51		10.0	95
Tungsten	24.3		25.0	97	9.89	J	10.0	99	9.76	J	10.0	98
Vanadium	50.0		50.0	100	19.6	J	20.0	98	19.6	J	20.0	98
Zinc	50.3		50.0	101	20.9		20.0	105	20.2		20.0	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 200-20765/8 07/01/2011 16:55 Found	C	CCB 200-20765/12 07/01/2011 17:23 Found	C	CCB 200-20765/18 07/01/2011 18:05 Found	C	Found	C
Antimony	2.0	0.122	J	2.0	U	2.0	U		
Arsenic	5.0	5.0	U	5.0	U	5.0	U		
Barium	5.0	5.0	U	5.0	U	5.0	U		
Beryllium	1.0	1.0	U	1.0	U	1.0	U		
Cadmium	1.0	1.0	U	1.0	U	1.0	U		
Chromium	2.0	2.0	U	2.0	U	2.0	U		
Cobalt	1.0	0.193	J	0.197	J	0.191	J		
Copper	2.0	2.0	U	2.0	U	2.0	U		
Lead	1.0	0.147	J	0.150	J	0.149	J		
Molybdenum	2.0	0.558	J	1.07	J	2.0	U		
Nickel	2.0	2.0	U	2.0	U	2.0	U		
Selenium	5.0	5.0	U	5.0	U	5.0	U		
Silver	1.0	1.0	U	1.0	U	1.0	U		
Thallium	2.0	0.234	J	0.252	J	0.230	J		
Tungsten	10	0.185	J	10	U	10	U		
Vanadium	20	20	U	20	U	20	U		
Zinc	20	20	U	20	U	20	U		

Italicized analytes were not requested for this sequence.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Lab Sample ID: ICSA 200-20765/9 Instrument ID: METICPMS2

Lab File ID: 070111-02a.xml ICS Source: MEMSICSAW_00022

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.359**	
Arsenic		**-0.0010**	
Barium		**0.624**	
Beryllium		**-0.0340**	
Cadmium		**0.583**	
Chromium		**1.43**	
Cobalt		**0.400**	
Copper		**1.17**	
Lead		**0.309**	
Molybdenum	**2000**	**2224**	**111**
Nickel		**-2.22**	
Selenium		**-1.09**	
Silver		**0.0080**	
Thallium		**0.249**	
Tungsten		**0.312**	
Vanadium		**0.326**	
Zinc		**-0.487**	
Aluminum	*100000*	*100800*	*101*
Boron		*4.58*	
Calcium	*100000*	*108600*	*109*
Iron	*100000*	*102233*	*102*
Magnesium	*100000*	*108633*	*109*
Manganese		*0.243*	
Potassium	*100000*	*112133*	*112*
Sodium	*100000*	*108133*	*108*
Th		*0.430*	
U		*0.323*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Lab Sample ID: ICSAB 200-20765/10 Instrument ID: METICPMS2

Lab File ID: 070111-02a.xml ICS Source: MEMSABw_00025

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Antimony	**100**	**101**	**101**
Arsenic	**20.0**	**18.5**	**93**
Barium	**500**	**524**	**105**
Beryllium	**20.0**	**18.5**	**93**
Cadmium	**20.0**	**19.2**	**96**
Chromium	**40.0**	**40.2**	**100**
Cobalt	**50.0**	**47.6**	**95**
Copper	**100**	**91.5**	**91**
Lead	**20.0**	**21.2**	**106**
Molybdenum	**2000**	**2143**	**107**
Nickel	**100**	**91.6**	**92**
Selenium	**20.0**	**17.8**	**89**
Silver	**20.0**	**18.0**	**90**
Thallium	**20.0**	**20.6**	**103**
Tungsten	**20.0**	**21.8**	**109**
Vanadium	**40.0**	**40.0**	**100**
Zinc	**100**	**90.9**	**91**
Aluminum	*100000*	*96473*	*96*
Boron	*200*	*218*	*109*
Calcium	*100000*	*105700*	*106*
Iron	*100000*	*99177*	*99*
Magnesium	*100000*	*105033*	*105*
Manganese	*40.0*	*40.7*	*102*
Potassium	*100000*	*110667*	*111*
Sodium	*100000*	*105567*	*106*
Th	*20.0*	*21.5*	*108*
U	*20.0*	*22.8*	*114*

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

FORM IVA-IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 07/01/2011 End Date: 07/01/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element In-115	Q	Element Tb-159	Q
STD0 200-20765/2 IC	16:13	100		100		100		100		100	
STDLL2 200-20765/3	16:20	101		100		101		101		101	
STD1 200-20765/4 IC	16:27	104		103		103		103		102	
STD2 200-20765/5 IC	16:34	102		103		103		102		103	
STD3 200-20765/6 IC	16:41	100		100		99		97		99	
ICV 200-20765/7	16:48	101		103		101		100		101	
ICB 200-20765/8	16:55	101		103		102		101		101	
ICSA 200-20765/9	17:02	81		85		86		87		90	
ICSAB 200-20765/10	17:09	78		84		86		88		92	
CCV 200-20765/11	17:16	91		97		101		103		106	
CCB 200-20765/12	17:23	95		98		101		103		103	
240-948-27	17:30	95		97		97		95		101	
240-948-28	17:37	98		98		98		96		101	
240-948-28 SD	17:44	105		103		105		105		107	
CCV 200-20765/17	17:58	100		100		101		102		103	
CCB 200-20765/18	18:05	102		102		101		103		103	

FORM XV - IN

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 07/01/2011 End Date: 07/01/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Bi-209	Q	Element	Q	Element	Q	Element	Q	Element	Q
STD0 200-20765/2 IC	16:13	100									
STDLL2 200-20765/3	16:20	101									
STD1 200-20765/4 IC	16:27	102									
STD2 200-20765/5 IC	16:34	100									
STD3 200-20765/6 IC	16:41	92									
ICV 200-20765/7	16:48	97									
ICB 200-20765/8	16:55	102									
ICSA 200-20765/9	17:02	78									
ICSAB 200-20765/10	17:09	81									
CCV 200-20765/11	17:16	104									
CCB 200-20765/12	17:23	104									
240-948-27	17:30	87									
240-948-28	17:37	88									
240-948-28 SD	17:44	103									
CCV 200-20765/17	17:58	100									
CCB 200-20765/18	18:05	104									

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Instrument ID: METICPMS2 Method: 6020

Start Date: 07/02/2011 09:44 End Date: 07/02/2011 21:26

Lab Sample ID	D/F	Type	Time	Analytes																	
				Ag	As	Ba	Be	Cd	Co	Cr	Cu	Mo	Ni	Pb	Sb	Se	Tl	V	W	Zn	
ITUNE 200-20787/1			09:44																		
STD0 200-20787/2 IC	1		19:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
STDLL2 200-20787/3 IC	1		19:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
STD1 200-20787/4 IC	1		19:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
STD2 200-20787/5 IC	1		19:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
STD3 200-20787/6 IC	1		20:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICV 200-20787/7	1		20:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICB 200-20787/8	1		20:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSA 200-20787/9	1		20:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSAB 200-20787/10	1		20:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV 200-20787/11	1		20:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 200-20787/12	1		20:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			20:55																		
ZZZZZZ			21:03																		
240-948-20 SD	5	D	21:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV 200-20787/16	1		21:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 200-20787/17	1		21:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

Prep Types

D = Dissolved

Serial dilution

14-IN
ICP-MS TUNE
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Analysis Date: 07/02/11

Lab ID: ITUNE 200-20787/1

Element - Mass	Avg. Measured Mass (amu)	Avg. Peak Width at Peak Height (amu)	% RSD	Q
Li-6	6.0651	0.74	0.936	
Be-9	8.9822	0.78	1.951	
Mg-24	23.985	0.75	0.796	
Mg-25	24.9958	0.75	1.519	
Mg-26	25.9926	0.75	1.044	
Al-27	26.9915	0.74	1.314	
Sc-45	44.9759	0.75	0.536	
V-51	50.954	0.75	1.079	
Co-59	58.9332	0.74	0.609	
Y-89	88.9059	0.77	0.663	
In-113	112.9141	0.72	0.836	
In-115	114.9039	0.75	0.568	
Ba-137	136.9058	0.77	1.256	
Ce-140	139.9054	0.77	0.588	
Tb-159	158.9254	0.79	0.470	
Pb-206	205.9945	0.75	0.868	
Pb-207	206.9859	0.77	0.829	
Pb-208	207.9866	0.77	0.467	
Th-232	232.0781	0.75	0.653	
U-238	238.0908	0.75	0.686	

FORM XIV - IN

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEICPMSICVi_00018 Concentration Units: ug/L

CCV Source: MEICPMSCALi_00017

	ICV 200-20787/7 07/02/2011 20:09				CCV 200-20787/11 07/02/2011 20:40				CCV 200-20787/16 07/02/2011 21:18			
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	48.7		50.0	97	20.6		20.0	103	20.4		20.0	102
Arsenic	25.0		25.0	100	10.0		10.0	100	9.99		10.0	100
Barium	1340		1250	108	257		250	103	255		250	102
Beryllium	25.6		25.0	102	9.49		10.0	95	9.74		10.0	97
Cadmium	26.2		25.0	105	10.2		10.0	102	10.2		10.0	102
Chromium	50.2		50.0	100	20.0		20.0	100	19.8		20.0	99
Cobalt	129		125	103	49.4		50.0	99	49.0		50.0	98
Copper	51.8		50.0	104	20.5		20.0	103	20.0		20.0	100
Lead	25.4		25.0	102	9.90		10.0	99	9.85		10.0	98
Molybdenum	263		250	105	105		100	105	101		100	101
Nickel	51.7		50.0	103	20.1		20.0	100	20.2		20.0	101
Selenium	24.8		25.0	99	10.4		10.0	104	10.4		10.0	104
Silver	26.6		25.0	106	10.0		10.0	100	10.0		10.0	100
Thallium	24.8		25.0	99	9.69		10.0	97	9.64		10.0	96
Tungsten	25.3		25.0	101	10.4		10.0	104	10.1		10.0	101
Vanadium	50.2		50.0	100	20.1		20.0	100	19.8	J	20.0	99
Zinc	49.9		50.0	100	21.1		20.0	106	21.0		20.0	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 200-20787/8 07/02/2011 20:17 Found	C	CCB 200-20787/12 07/02/2011 20:48 Found	C	CCB 200-20787/17 07/02/2011 21:26 Found	C	Found	C
Antimony	2.0	0.104	J	2.0	U	2.0	U		
Arsenic	5.0	5.0	U	5.0	U	5.0	U		
Barium	5.0	5.0	U	5.0	U	5.0	U		
Beryllium	1.0	1.0	U	1.0	U	1.0	U		
Cadmium	1.0	1.0	U	1.0	U	1.0	U		
Chromium	2.0	2.0	U	2.0	U	2.0	U		
Cobalt	1.0	1.0	U	1.0	U	1.0	U		
Copper	2.0	2.0	U	2.0	U	2.0	U		
Lead	1.0	0.0470	J	0.0470	J	0.0490	J		
Molybdenum	2.0	0.781	J	1.19	J	2.0	U		
Nickel	2.0	2.0	U	2.0	U	2.0	U		
Selenium	5.0	5.0	U	5.0	U	5.0	U		
Silver	1.0	1.0	U	1.0	U	1.0	U		
Thallium	2.0	0.126	J	0.131	J	0.118	J		
Tungsten	10	0.276	J	10	U	10	U		
Vanadium	20	20	U	20	U	20	U		
Zinc	20	20	U	20	U	20	U		

Italicized analytes were not requested for this sequence.

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Lab Sample ID: ICSA 200-20787/9 Instrument ID: METICPMS2

Lab File ID: 070211-05.xml ICS Source: MEMSICSAW_00022

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**0.352**	
Arsenic		**-0.144**	
Barium		**0.0740**	
Beryllium		**-0.116**	
Cadmium		**0.444**	
Chromium		**1.01**	
Cobalt		**0.0770**	
Copper		**0.949**	
Lead		**0.203**	
Molybdenum	**2000**	**2212**	**111**
Nickel		**-2.17**	
Selenium		**-1.42**	
Silver		**-0.0460**	
Thallium		**0.140**	
Tungsten		**0.390**	
Vanadium		**0.325**	
Zinc		**-0.425**	
Aluminum	*100000*	*101367*	*101*
Boron		*9.50*	
Calcium	*100000*	*109867*	*110*
Iron	*100000*	*103067*	*103*
Magnesium	*100000*	*106100*	*106*
Manganese		*0.0960*	
Potassium	*100000*	*108800*	*109*
Sodium	*100000*	*104183*	*104*
Th		*0.398*	
U		*0.233*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Lab Sample ID: ICSAB 200-20787/10 Instrument ID: METICPMS2

Lab File ID: 070211-05.xml ICS Source: MEMSABw_00025

Concentration Units: ug/L

Analyte	True	Found	
	Solution AB	Solution AB	Percent Recovery
Antimony	100	107	107
Arsenic	20.0	18.1	91
Barium	500	561	112
Beryllium	20.0	17.4	87
Cadmium	20.0	19.7	99
Chromium	40.0	41.9	105
Cobalt	50.0	48.9	98
Copper	100	96.2	96
Lead	20.0	22.5	113
Molybdenum	2000	2243	112
Nickel	100	94.6	95
Selenium	20.0	16.2	81
Silver	20.0	19.2	96
Thallium	20.0	21.7	108
Tungsten	20.0	24.3	121
Vanadium	40.0	41.3	103
Zinc	100	92.1	92
Aluminum	*100000*	*101133*	*101*
Boron	*200*	*223*	*112*
Calcium	*100000*	*111900*	*112*
Iron	*100000*	*105200*	*105*
Magnesium	*100000*	*105833*	*106*
Manganese	*40.0*	*42.8*	*107*
Potassium	*100000*	*110033*	*110*
Sodium	*100000*	*103100*	*103*
Th	*20.0*	*23.3*	*117*
U	*20.0*	*25.0*	*125*

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

FORM IVA-IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 07/02/2011 End Date: 07/02/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element In-115	Q	Element Tb-159	Q
STD0 200-20787/2 IC	19:31	100		100		100		100		100	
STDLL2 200-20787/3	19:39	105		103		104		102		102	
STD1 200-20787/4 IC	19:46	106		105		105		103		102	
STD2 200-20787/5 IC	19:54	108		107		107		104		102	
STD3 200-20787/6 IC	20:02	101		103		101		98		99	
ICV 200-20787/7	20:09	104		104		102		98		99	
ICB 200-20787/8	20:17	106		102		101		99		99	
ICSA 200-20787/9	20:25	77		81		81		82		87	
ICSAB 200-20787/10	20:32	69		74		77		80		88	
CCV 200-20787/11	20:40	83		90		93		95		101	
CCB 200-20787/12	20:48	88		94		96		98		102	
240-948-20 SD	21:10	96		100		100		101		106	
CCV 200-20787/16	21:18	93		97		98		100		104	
CCB 200-20787/17	21:26	93		95		96		98		102	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICP-MS Instrument ID: METICPMS2 Start Date: 07/02/2011 End Date: 07/02/2011

Lab Sample ID	Time	Internal Standards %RI For: Element Bi-209	Q	Element	Q	Element	Q	Element	Q	Element	Q
STD0 200-20787/2 IC	19:31	100									
STDLL2 200-20787/3	19:39	99									
STD1 200-20787/4 IC	19:46	98									
STD2 200-20787/5 IC	19:54	97									
STD3 200-20787/6 IC	20:02	90									
ICV 200-20787/7	20:09	92									
ICB 200-20787/8	20:17	96									
ICSA 200-20787/9	20:25	76									
ICSAB 200-20787/10	20:32	78									
CCV 200-20787/11	20:40	100									
CCB 200-20787/12	20:48	102									
240-948-20 SD	21:10	102									
CCV 200-20787/16	21:18	102									
CCB 200-20787/17	21:26	102									

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Instrument ID: MEPCV3 Method: 7470A

Start Date: 07/01/2011 11:06 End Date: 07/01/2011 12:16

Lab Sample ID	D/F	Type	Time	Analytes: Hg
IC 200-20644/1-A			11:06	X
IC 200-20644/2-A			11:08	X
IC 200-20644/3-A			11:10	X
IC 200-20644/4-A			11:12	X
IC 200-20644/5-A			11:14	X
IC 200-20644/6-A			11:16	X
ICV 200-20644/7-A	1		11:18	X
ICB 200-20644/8-A	1		11:20	X
CCV 200-20644/9-A	1		11:22	X
CCB 200-20644/10-A	1		11:24	X
MB 200-20644/11-A	1	T	11:26	X
LCS 200-20644/12-A	1	T	11:28	X
240-948-2	1	T	11:30	X
240-948-3	1	T	11:32	X
240-948-4	1	T	11:34	X
240-948-5	1	T	11:35	X
240-948-6	1	T	11:37	X
240-948-7	1	T	11:39	X
240-948-8	1	T	11:41	X
CCV 200-20644/9-A	1		11:43	X
CCB 200-20644/10-A	1		11:45	X
240-948-9	1	T	11:47	X
240-948-10	1	T	11:49	X
240-948-11	1	T	11:51	X
240-948-12	1	T	11:53	X
240-948-13	1	T	11:55	X
240-948-14	1	T	11:56	X
240-948-15	1	T	11:58	X
240-948-16	1	T	12:00	X
240-948-17	1	T	12:02	X
CCV 200-20644/9-A	1		12:04	X
CCB 200-20644/10-A	1		12:06	X
240-948-18	1	T	12:08	X
240-948-19	1	T	12:10	X
240-948-20	1	T	12:12	X
CCV 200-20644/9-A	1		12:14	X
CCB 200-20644/10-A	1		12:16	X

Prep Types

T = Total/NA

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEHGICVw_00010 Concentration Units: ug/L

CCV Source: MEHGCCVw_00279

	ICV 200-20644/7-A 07/01/2011 11:18				CCV 200-20644/9-A 07/01/2011 11:22				CCV 200-20644/9-A 07/01/2011 11:43			
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.94		3.00	98	5.07		5.00	101	4.96		5.00	99

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEHGICVw_00010 Concentration Units: ug/L

CCV Source: MEHGCCVw_00279

	CCV 200-20644/9-A 07/01/2011 12:04				CCV 200-20644/9-A 07/01/2011 12:14							
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.03		5.00	101	5.06		5.00	101				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

		ICB 200-20644/8-A 07/01/2011 11:20		CCB 200-20644/10-A 07/01/2011 11:24		CCB 200-20644/10-A 07/01/2011 11:45		CCB 200-20644/10-A 07/01/2011 12:06	
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

		CCB 200-20644/10-A 07/01/2011 12:16							
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U						

Italicized analytes were not requested for this sequence.

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Instrument ID: MEPCV3 II Method: 7470A

Start Date: 07/01/2011 09:58 End Date: 07/01/2011 11:17

Lab Sample ID	D/F	Type	Time	Analytes: Hg
IC 200-20573/1-A			09:58	X
IC 200-20573/2-A			10:00	X
IC 200-20573/3-A			10:02	X
IC 200-20573/4-A			10:04	X
IC 200-20573/5-A			10:06	X
IC 200-20573/6-A			10:09	X
ICV 200-20573/7-A	1		10:11	X
ICB 200-20573/8-A	1		10:14	X
CCV 200-20573/9-A	1		10:16	X
CCB 200-20573/10-A	1		10:19	X
MB 200-20573/11-A	1	T	10:21	X
LCS 200-20573/12-A	1	T	10:23	X
PB 200-20600/1-B	1	D	10:25	X
240-948-2	1	D	10:27	X
240-948-3	1	D	10:29	X
240-948-4	1	D	10:31	X
240-948-5	1	D	10:33	X
240-948-6	1	D	10:35	X
240-948-7	1	D	10:38	X
CCV 200-20573/9-A	1		10:40	X
CCB 200-20573/10-A	1		10:41	X
240-948-8	1	D	10:43	X
240-948-9	1	D	10:46	X
240-948-10	1	D	10:48	X
240-948-11	1	D	10:50	X
240-948-12	1	D	10:52	X
240-948-13	1	D	10:55	X
240-948-14	1	D	10:57	X
240-948-15	1	D	10:59	X
240-948-16	1	D	11:01	X
CCV 200-20573/9-A	1		11:03	X
CCB 200-20573/10-A	1		11:05	X
240-948-17	1	D	11:07	X
240-948-18	1	D	11:09	X
240-948-19	1	D	11:11	X
240-948-20	1	D	11:13	X
CCV 200-20573/9-A	1		11:15	X
CCB 200-20573/10-A	1		11:17	X

Prep Types
D = Dissolved
T = Total/NA

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEHGICVw_00010 Concentration Units: ug/L

CCV Source: MEHGCCVw_00279

	ICV 200-20573/7-A 07/01/2011 10:11				CCV 200-20573/9-A 07/01/2011 10:16				CCV 200-20573/9-A 07/01/2011 10:40			
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.91		3.00	97	4.65		5.00	93	4.82		5.00	96

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEHGICVw_00010 Concentration Units: ug/L

CCV Source: MEHGCCVw_00279

	CCV 200-20573/9-A 07/01/2011 11:03				CCV 200-20573/9-A 07/01/2011 11:15							
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.06		5.00	101	5.19		5.00	104				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

		ICB 200-20573/8-A 07/01/2011 10:14		CCB 200-20573/10-A 07/01/2011 10:19		CCB 200-20573/10-A 07/01/2011 10:41		CCB 200-20573/10-A 07/01/2011 11:05	
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

		CCB 200-20573/10-A 07/01/2011 11:17							
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U						

Italicized analytes were not requested for this sequence.

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Instrument ID: MEPCV3 II Method: 7470A

Start Date: 07/01/2011 12:06 End Date: 07/01/2011 13:18

Lab Sample ID	D/F	Type	Time	Analytes: Hg
IC 200-20647/1-A			12:06	X
IC 200-20647/2-A			12:08	X
IC 200-20647/3-A			12:10	X
IC 200-20647/4-A			12:12	X
IC 200-20647/5-A			12:15	X
IC 200-20647/6-A			12:17	X
ICV 200-20647/7-A	1		12:19	X
ICB 200-20647/8-A	1		12:21	X
CCV 200-20647/9-A	1		12:23	X
CCB 200-20647/10-A	1		12:25	X
MB 200-20647/11-A	1	T	12:27	X
LCS 200-20647/12-A	1	T	12:29	X
240-948-21	1	T	12:31	X
240-948-22	1	T	12:33	X
240-948-23	1	T	12:35	X
240-948-24	1	T	12:37	X
240-948-25	1	T	12:40	X
240-948-26	1	T	12:42	X
240-948-27	1	T	12:44	X
CCV 200-20647/9-A	1		12:46	X
CCB 200-20647/10-A	1		12:49	X
240-948-28	1	T	12:51	X
PB 200-20646/1-B	1	D	12:53	X
240-948-21	1	D	12:55	X
240-948-22	1	D	12:57	X
240-948-23	1	D	12:59	X
240-948-24	1	D	13:01	X
240-948-25	1	D	13:03	X
240-948-26	1	D	13:05	X
240-948-27	1	D	13:07	X
CCV 200-20647/9-A	1		13:09	X
CCB 200-20647/10-A	1		13:12	X
240-948-28	1	D	13:14	X
CCV 200-20647/9-A	1		13:16	X
CCB 200-20647/10-A	1		13:18	X

Prep Types

D = Dissolved

T = Total/NA

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEHGICVw_00010 Concentration Units: ug/L

CCV Source: MEHGCCVw_00279

	ICV 200-20647/7-A 07/01/2011 12:19				CCV 200-20647/9-A 07/01/2011 12:23				CCV 200-20647/9-A 07/01/2011 12:46			
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.97		3.00	99	5.27		5.00	105	5.31		5.00	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

ICV Source: MEHGICVw_00010 Concentration Units: ug/L

CCV Source: MEHGCCVw_00279

	CCV 200-20647/9-A 07/01/2011 13:09				CCV 200-20647/9-A 07/01/2011 13:16							
Analyte	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.28		5.00	106	5.34		5.00	107				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

		ICB 200-20647/8-A 07/01/2011 12:21		CCB 200-20647/10-A 07/01/2011 12:25		CCB 200-20647/10-A 07/01/2011 12:49		CCB 200-20647/10-A 07/01/2011 13:12	
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U	0.20	U	0.20	U	0.20	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Burlington Job No.: 240-948-1

SDG No.:

Concentration Units: ug/L

		CCB 200-20647/10-A 07/01/2011 13:18							
Analyte	RL	Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.20	U						

Italicized analytes were not requested for this sequence.

Case Narrative

TestAmerica West Sacramento Project Number G1F110419

WATER, 314.0, Perchlorate
Samples: 1, 2, 3, 4, 5, 6, 7
The percent difference values for perchlorate are above the method acceptance limits in the continuing calibration standards analyzed June 21, 2011 at 19:56 and 23:01. These standards were analyzed before and after the associated samples. Since the associated sample results were all "ND", no corrective action was performed.

Samples: 1, 2, 3, 4, 5, 6, 7
The associated laboratory control sample has a high recovery (116%). Since the associated sample results were all "ND", no corrective action was performed.

There are no other anomalies associated with this project.

Sample Summary

TestAmerica West Sacramento Project Number G1F110419

WO#	Sample #	Client Sample ID	Sampling Date	Received Date
MJ6EP	1	MSA-SW39A-060811	6/8/2011 09:00 AM	6/11/2011 08:50 AM
MJ6EQ	2	MSA-SW39B-060811	6/8/2011 09:05 AM	6/11/2011 08:50 AM
MJ6ER	3	MSA-SW39C-060811	6/8/2011 09:10 AM	6/11/2011 08:50 AM
MJ6ET	4	MSA-SW45A-060811	6/8/2011 09:20 AM	6/11/2011 08:50 AM
MJ6EV	5	MSA-SW45B-060811	6/8/2011 09:25 AM	6/11/2011 08:50 AM
MJ6EW	6	MSA-SW45C-060811	6/8/2011 09:35 AM	6/11/2011 08:50 AM
MJ6EX	7	MSA-SW44A-060811	6/8/2011 09:45 AM	6/11/2011 08:50 AM
MJ6E0	8	MSA-SW44B-060811	6/8/2011 09:50 AM	6/11/2011 08:50 AM
MJ6E1	9	MSA-SW44C-060811	6/8/2011 10:00 AM	6/11/2011 08:50 AM
MJ6E2	10	MSA-SW41A-060811	6/8/2011 10:40 AM	6/11/2011 08:50 AM
MJ6E3	11	MSA-SW41B-060811	6/8/2011 10:50 AM	6/11/2011 08:50 AM
MJ6E4	12	MSA-SW41C-060811	6/8/2011 11:00 AM	6/11/2011 08:50 AM
MJ6E5	13	MSA-SW38A-060811	6/8/2011 11:05 AM	6/11/2011 08:50 AM
MJ6E6	14	MSA-SW38B-060811	6/8/2011 11:10 AM	6/11/2011 08:50 AM
MJ6E7	15	MSA-SW38C-060811	6/8/2011 11:20 AM	6/11/2011 08:50 AM
MJ6E8	16	MSA-SW43A-060811	6/8/2011 10:20 AM	6/11/2011 08:50 AM
MJ6E9	17	MSA-SW43B-060811	6/8/2011 10:25 AM	6/11/2011 08:50 AM
MJ6FA	18	MSA-SW43C-060811	6/8/2011 10:30 AM	6/11/2011 08:50 AM
MJ6FC	19	MSA-SW40A-060811	6/8/2011 11:35 AM	6/11/2011 08:50 AM
MJ6FD	20	MSA-SW40B-060811	6/8/2011 10:40 AM	6/11/2011 08:50 AM
MJ6FE	21	MSA-SW40C-060811	6/8/2011 11:50 AM	6/11/2011 08:50 AM
MJ6FF	22	MSA-SW42A-060811	6/8/2011 11:55 AM	6/11/2011 08:50 AM
MJ6FG	23	MSA-SW42B-060811	6/8/2011 12:05 PM	6/11/2011 08:50 AM
MJ6FH	24	MSA-SW42C-060811	6/8/2011 12:10 PM	6/11/2011 08:50 AM
MJ6FJ	25	MSA-SW37A-060811	6/8/2011 01:16 PM	6/11/2011 08:50 AM
MJ6FK	26	MSA-SW37B-060811	6/8/2011 01:23 PM	6/11/2011 08:50 AM
MJ6FL	27	MSA-SW37C-060811	6/8/2011 01:28 PM	6/11/2011 08:50 AM

Notes(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

G1F110419

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 314.0		1174077	1174040
002	WATER	MCAWW 314.0		1174077	1174040
003	WATER	MCAWW 314.0		1174077	1174040
004	WATER	MCAWW 314.0		1174077	1174040
005	WATER	MCAWW 314.0		1174077	1174040
006	WATER	MCAWW 314.0		1174077	1174040
007	WATER	MCAWW 314.0		1174077	1174040
008	WATER	MCAWW 314.0		1175059	1175027
009	WATER	MCAWW 314.0		1175059	1175027
010	WATER	MCAWW 314.0		1175059	1175027
011	WATER	MCAWW 314.0		1175059	1175027
012	WATER	MCAWW 314.0		1175059	1175027
013	WATER	MCAWW 314.0		1175059	1175027
014	WATER	MCAWW 314.0		1175059	1175027
015	WATER	MCAWW 314.0		1175059	1175027
016	WATER	MCAWW 314.0		1175059	1175027
017	WATER	MCAWW 314.0		1175059	1175027
018	WATER	MCAWW 314.0		1175059	1175027
019	WATER	MCAWW 314.0		1175059	1175027
020	WATER	MCAWW 314.0		1175059	1175027
021	WATER	MCAWW 314.0		1175059	1175027

(Continued on next page)

QC DATA ASSOCIATION SUMMARY

G1F110419

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
022	WATER	MCAWW 314.0		1175059	1175027
023	WATER	MCAWW 314.0		1175059	1175027
024	WATER	MCAWW 314.0		1175059	1175027
025	WATER	MCAWW 314.0		1175059	1175027
026	WATER	MCAWW 314.0		1175059	1175027
027	WATER	MCAWW 314.0		1175059	1175027

METHOD BLANK REPORT

General Chemistry

Client Lot #...: G1F110419 Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate		Work Order #: MKFVD1AA		MB Lot-Sample #:	G1F230000-077	
	ND	1.0	ug/L	MCAWW 314.0	06/21/11	1174077
		Dilution Factor: 1				
Perchlorate		Work Order #: MKGKR1AA		MB Lot-Sample #:	G1F240000-059	
	ND	1.0	ug/L	MCAWW 314.0	06/23/11	1175059
		Dilution Factor: 1				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G1F110419 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate		Work Order #: MKFVD1AC	LCS Lot-Sample#: G1F230000-077		
	116 N	(85 - 115)	MCAWW 314.0	06/21/11	1174077
		Dilution Factor: 1			
Perchlorate		Work Order #: MKGKR1AC	LCS Lot-Sample#: G1F240000-059		
	101	(85 - 115)	MCAWW 314.0	06/23/11	1175059
		Dilution Factor: 1			

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G1F110419 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate			Work Order #: MKFVD1AC LCS Lot-Sample#: G1F230000-077				
	100	116 N	ug/L	116	MCAWW 314.0	06/21/11	1174077
			Dilution Factor: 1				
Perchlorate			Work Order #: MKGKR1AC LCS Lot-Sample#: G1F240000-059				
	50.0	50.4	ug/L	101	MCAWW 314.0	06/23/11	1175059
			Dilution Factor: 1				

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: G1F110419 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate		WO#: MJ6EP1AC-MS/MJ6EP1AD-MSD				MS Lot-Sample #: G1F110419-001	
	115	(80 - 120)			MCAWW 314.0	06/22/11	1174077
	118	(80 - 120)	2.8	(0-20)	MCAWW 314.0	06/22/11	1174077
		Dilution Factor: 1					
Perchlorate		WO#: MJ6E01AC-MS/MJ6E01AD-MSD				MS Lot-Sample #: G1F110419-008	
	105	(80 - 120)			MCAWW 314.0	06/23/11	1175059
	104	(80 - 120)	0.86	(0-20)	MCAWW 314.0	06/23/11	1175059
		Dilution Factor: 1					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: G1F110419 Matrix.....: WATER
Date Sampled...: 06/08/11 Date Received..: 06/11/11

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Perchlorate			WO#: MJ6EP1AC-MS/MJ6EP1AD-MSD		MS Lot-Sample #: G1F110419-001				
	ND	50.0	57.4	ug/L	115		MCAWW 314.0	06/22/11	1174077
	ND	50.0	59.0	ug/L	118	2.8	MCAWW 314.0	06/22/11	1174077
			Dilution Factor: 1						
Perchlorate			WO#: MJ6E01AC-MS/MJ6E01AD-MSD		MS Lot-Sample #: G1F110419-008				
	ND	50.0	52.4	ug/L	105		MCAWW 314.0	06/23/11	1175059
	ND	50.0	51.9	ug/L	104	0.86	MCAWW 314.0	06/23/11	1175059
			Dilution Factor: 1						

NOTE(S):

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

TestAmerica West Sacramento

Perchlorate QC Check Sheet

File Name: 062111A
Chemist: JDR
Date: 6/21/2011

RL = 1 ug/L

Sample ID	Criteria	True Value (ug/L)	Result	% Rec	Acceptance Criteria	Pass/Fail
Blank	baseline noise	n/a	0.0027	n/a	noise < 0.005	PASS
QCS/ICS	% Recovery	50	51.7221	103%	90% - 110%	PASS
ICB	< 1/2 MRL	n/a	ND	n/a	< 1/2 MRL	PASS
IPC/MCT	% Recovery	25	25.7993	103%	80% - 120%	PASS
	$PD_{A/H\ (ICV\ vs\ MCT)}$	n/a	10.3%	n/a	< 25%	PASS
	A/H ICV	0.2985				
	A/H MCT	0.331				
	Retention Time Shift	n/a	2.2%	n/a	< 5%	PASS
	RT ICV	9.3				
	RT MCT	9.1				
	ΔEC of IPC/MCT	n/a	1%	n/a	< 10%	PASS
	Original EC	5050				
	Daily EC	5000				
ICCS	% Recovery	4	4.208	105%	75% - 125%	PASS
	% Recovery	1	1.0054	101%	75% - 125%	PASS

\\Sacsvr01\GenChem\Forms\Perchlorate forms\Archived QC Check files\QA-569_Perchlorate_QC_062111a.xlsPerchlorate QC CheckPrinted: 6/22/201110:18 AM

Sample No.	Sample Name	Ret.Time min Perchlorate ECD_1	Area µS*min Perchlorate ECD_1	Height µS Perchlorate ECD_1	Amount Perchlorate ECD_1	Area/Heigh Perchlorat ECD_1	Noise µS Perchlorate ECD_1
11	BLANK	n.a.	n.a.	n.a.	n.a.	n.a.	0.0027
12	QCS/ICV 50 PPB	9.300	0.0940	0.31	51.7221	0.2985	0.0012
13	ICB	n.a.	n.a.	n.a.	n.a.	n.a.	0.0016
19	1 PPB	9.213	0.0019	0.01	1.0054	0.3403	0.0011
20	4 PPB	9.234	0.0076	0.03	4.2080	0.2930	0.0004
21	IPC/MCT 25 PPB @ 6(	9.100	0.0461	0.14	25.7993	0.3310	0.0009
	Average:	**9.212**	**0.037**	**0.121**	**20.684**		**0**
	Rel.Std.Dev:	**0.904 %**	**113.716 %**	**116.746 %**	**113.324 %**		**58.480 %**

Perchlorate QC Check Sheet

File Name: 062311A
Chemist: JDR
Date: 6/23/2011

RL = 1 ug/L

Sample ID	Criteria	True Value (ug/L)	Result	% Rec	Acceptance Criteria	Pass/Fail
Blank	baseline noise	n/a	0.0004	n/a	noise < 0.005	PASS
QCS/ICS	% Recovery	50	50.3563	101%	90% - 110%	PASS
ICB	< 1/2 MRL	n/a	ND	n/a	< 1/2 MRL	PASS
IPC/MCT	% Recovery	25	23.5238	94%	80% - 120%	PASS
	$PD_{A/H\ (ICV\ vs\ MCT)}$	n/a	14.5%	n/a	< 25%	PASS
	A/H ICV	0.28				
	A/H MCT	0.3239				
	Retention Time Shift	n/a	1.5%	n/a	< 5%	PASS
	RT ICV	9.277				
	RT MCT	9.137				
	ΔEC of IPC/MCT	n/a	2%	n/a	< 10%	PASS
	Original EC	5050				
	Daily EC	4970				
ICCS	% Recovery	4			75% - 125%	
	% Recovery	1	0.8332	83%	75% - 125%	PASS

Sample No.	Sample Name	Ret.Time min Perchlorate ECD_1	Area µS*min Perchlorate ECD_1	Height µS Perchlorate ECD_1	Amount Perchlorate ECD_1	Area/Heigh Perchlorat ECD_1	Noise µS Perchlorate ECD_1
9	BLANK	8.880	0.0008	0.00	0.1793	0.2858	0.0004
10	QCS/ICV 50 PPB	9.277	0.1040	0.37	50.3563	0.2800	0.0009
11	ICB	n.a.	n.a.	n.a.	n.a.	n.a.	0.0014
12	ICCS 1 PPB	9.264	0.0020	0.01	0.8332	0.2706	0.0025
13	ICCS 4 PPB	9.290	0.0079	0.03	3.8249	0.2941	0.0014
14	IPC/MCT 25 PPB @ 6(	9.137	0.0475	0.15	23.5238	0.3239	0.0015
	Average:	**9.169**	**0.032**	**0.111**	**15.744**		**0**
	Rel.Std.Dev:	**1.887 %**	**136.803 %**	**141.421 %**	**137.161 %**		**50.821 %**

Tetra Tech NUS **INTERNAL CORRESPONDENCE**

TO: **T. APANAVAGE** **DATE:** **JULY 25, 2011**

FROM: **MICHELLE L. ALLEN** **COPIES:** **DV FILE**

SUBJECT: **INORGANIC DATA VALIDATION – HEXAVALENT CHROMIUM**
MARTIN STATE AIRPORT (MSA)
SDGs R1103025, R1103063, R1103105, R1103161, R1103210, R1103216

SAMPLES: 58/Aqueous/Hexavalent Chromium

DMW4D-053111	DMW4I-053111	MW26S-053111
MW32I -053111	MW32S-053111	DMW1A-060111
DMW1B-060111	DMW1S-060111	MW19D-060111
MW19I-060111	DMW10S-060211	MW22D-060211
MW23D-060211	MW23S-060211	MW24I-060211
MW24S-060211	DMW9D-060611	DMW9I-060611
DMW9S-0060611	MW17S-060611	MW18I-060611
MW18S-060611	MW25I-060611	MW25S-060611
MW27D-060611	MW28I-060611	MSA-SW37A-060811
MSA-SW37B-060811	MSA-SW37C-060811	MSA-SW38A-060811
MSA-SW38B-060811	MSA-SW38C-060811	MSA-SW39A-060811
MSA-SW39B-060811	MSA-SW39C-060811	MSA-SW40A-060811
MSA-SW40B-060811	MSA-SW40C-060811	MSA-SW41A-060811
MSA-SW41B-060811	MSA-SW41C-060811	MSA-SW42A-060811
MSA-SW42B-060811	MSA-SW42C-060811	MSA-SW43A-060811
MSA-SW43B-060811	MSA-SW43C-060811	MSA-SW44A-060811
MSA-SW44B-060811	MSA-SW44C-060811	MSA-SW45A-060811
MSA-SW45B-060811	MSA-SW45C-060811	DMW3I-060811
DMW5I-060811	DMW5S-060811	MW30D-060811
MW31D-060811		

Overview

The sample set for Martin State Airport (MSA), SDGs R1103025, R1103063, R1103105, R1103161, R1103210, and R1103216 consisted of fifty-eight (58) aqueous environmental samples. All fifty-eight (58) aqueous samples were analyzed for hexavalent chromium. No field duplicate pair was included in the sample delivery group (SDG).

The samples were collected by Tetra Tech NUS on May 31, June 1, 2, 6, and 8, 2011 and analyzed by Columbia Analytical Services, Inc. All analyses were conducted in accordance with EPA Method 218.6 analytical and reporting protocols.

The data contained in these SDGs were validated with regard to the following parameters: data completeness, holding times, initial/continuing calibrations, laboratory method blank results, blank spike results, laboratory duplicate results, matrix spike recoveries, chromatographic resolution, analyte quantitation, and detection limits. Areas of concern are listed below.

Major

No major issues were identified.

The data for these analyses were reviewed with reference to Region III modifications to U.S. EPA National Functional Guidelines for Inorganic Data Validation (April 1993) and EPA Method 218.6. The text of this report has been formulated to address only those problem areas affecting data quality.

Tetra Tech NUS
Michelle L. Allen
Chemist/Data Validator

Tetra Tech NUS
Joseph A. Samchuck
Quality Assurance Officer

Attachments:
Appendix A – Qualified Analytical Results
Appendix B – Results as Reported by the Laboratory
Appendix C – Support Documentation

Minor

- The 24 hour holding time for samples, MSA-SW44B-060811, MSA-SW44C-060811, MSA-SW45A-060811, MSA-SW45B-060811, and MSA-SW45C-060811, in SDG R1103210 was exceeded. The positive results reported for hexavalent chromium in these samples were qualified as biased low, (L).

- The 24 hour holding time for samples, MW30D-060811, DMW5I-060811, and DMW5S-060811, in SDG R1103216 was exceeded. The positive and non-detected results reported for hexavalent chromium in these samples were qualified as biased low, (L) and (UL), respectively.

- The Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples from SDG R1103105 yielded 0% Percent Recoveries (%Rs) for hexavalent chromium. Although not required, a post verification spike sample was not performed after the poor %Rs, making it difficult to determine with certainty that a reducing environment exists for hexavalent chromium in the sample matrix. It is the data reviewer's opinion is that hexavalent chromium is being reduced. All samples in this SDG are affected. The sample results may be biased low. Because the samples were properly preserved, the blank spike %R was within the quality control limits, and the calibration criteria were compliant, the non-detected results for hexavalent chromium in the affected samples are qualified as biased low, (UL).

Notes

Samples DMW1B-060111 and MW19I-060111 were analyzed 1 and 2 minutes, respectively, outside of the 24 hour holding time. No action was taken.

The continuing calibration verification in SDG R1103161 performed on 06/07/11 @ 14:12 had a %R slightly above the upper quality control limit. No action was taken in the associated samples because no positive results were reported and the non-detected results were not affected.

Hexavalent chromium was detected below the Method Reporting Limit (MRL) in the calibration method blank analyzed after the samples in SDG R1103025. No blank contamination action was taken because hexavalent chromium was not detected in the associated samples.

The samples were properly preserved at the pH range of 9.0 - 9.5 prior to analysis.

Non-detected results were reported to the Method Reporting Limit (MRL).

Executive Summary

Laboratory Performance: Some samples in SDGs R1103210 and R1103216 exceeded the 24 hour holding time.

Other Factors Affecting Data Quality: The MS/MSD samples in SDG R1103105 had a zero %Rs.

APPENDIX A

QUALIFIED LABORATORY RESULTS

Data Validation Qualifier Codes:

A = Lab Blank Contamination
B = Field Blank Contamination
C = Calibration Noncompliance (e.g. % RSDs, %Ds, ICVs, CCVs, RRFs, etc.)
C01 = GC/MS Tuning Noncompliance
D = MS/MSD Recovery Noncompliance
E = LCS/LCSD Recovery Noncompliance
F = Lab Duplicate Imprecision
G = Field Duplicate Imprecision
H = Holding Time Exceedance
I = ICP Serial Dilution Noncompliance
J = GFAA PDS - GFAA MSA's $r < 0.995$ / ICP PDS Recovery Noncompliance
K = ICP Interference - includes ICS % R Noncompliance
L = Instrument Calibration Range Exceedance
M = Sample Preservation Noncompliance
N = Internal Standard Noncompliance
N01 = Internal Standard Recovery Noncompliance Dioxins
N02 = Recovery Standard Noncompliance Dioxins
N03 = Clean-up Standard Noncompliance Dioxins
O = Poor Instrument Performance (e.g. base-line drifting)
P = Uncertainty near detection limit (< 2 x IDL for inorganics and <CRQL for organics)
Q = Other problems (can encompass a number of issues; e.g. chromatography,interferences, etc.)
R = Surrogates Recovery Noncompliance
S = Pesticide/PCB Resolution
T = % Breakdown Noncompliance for DDT and Endrin
U = % Difference between columns/detectors >25% for positive results determined via GC/HPLC
V = Non-linear calibrations; correlation coefficient $r < 0.995$
W = EMPC result
X = Signal to noise response drop
Y = Percent solids <30%
Z = Uncertainty at 2 sigma deviation is greater than sample activity

PROJ_NO: C03292	NSAMPLE	DMW4D-053111			DMW4I-053111			MW26S-053111			MW32I -053111		
SDG: R1103025	LAB_ID	R1103025-002			R1103025-004			R1103025-001			R1103025-005		
FRACTION: MISC	SAMP_DATE	5/31/2011			5/31/2011			5/31/2011			5/31/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.01	U		0.01	U		0.01	U		0.01	U	

PROJ_NO: C03292	NSAMPLE	MW32S-053111		
SDG: R1103025	LAB_ID	R1103025-003		
FRACTION: MISC	SAMP_DATE	5/31/2011		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.01	U	

PROJ_NO: C03292	NSAMPLE	DMW1A-060111			DMW1B-060111			DMW1S-060111			MW19D-060111		
SDG: R1103063	LAB_ID	R1103063-004			R1103063-003			R1103063-005			R1103063-001		
FRACTION: MISC	SAMP_DATE	6/1/2011			6/1/2011			6/1/2011			6/1/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.01	U		0.01	U		0.01	U		0.01	U	

PROJ_NO: C03292	NSAMPLE	MW19I-060111		
SDG: R1103063	LAB_ID	R1103063-002		
FRACTION: MISC	SAMP_DATE	6/1/2011		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.01	U	

PROJ_NO: C03292	NSAMPLE	DMW10S-060211			MW22D-060211			MW23D-060211			MW23S-060211		
SDG: R1103105	LAB_ID	R1103105-006			R1103105-005			R1103105-003			R1103105-001		
FRACTION: MISC	SAMP_DATE	6/2/2011			6/2/2011			6/2/2011			6/2/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.01	UL	D	0.01	UL	D	0.01	UL	D	0.01	UL	D

PROJ_NO: C03292	NSAMPLE	MW24I-060211			MW24S-060211		
SDG: R1103105	LAB_ID	R1103105-004			R1103105-002		
FRACTION: MISC	SAMP_DATE	6/2/2011			6/2/2011		
MEDIA: WATER	QC_TYPE	NM			NM		
	UNITS	UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0		
	DUP_OF						
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.01	UL	D	0.01	UL	D

PROJ_NO: C03292	NSAMPLE	DMW3I-060811			DMW5I-060811			DMW5S-060811			MW30D-060811		
SDG: R1103216	LAB_ID	R1103216-004			R1103216-002			R1103216-003			R1103216-001		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.01	U		0.01	UL	H	0.01	UL	H	0.02	L	H

PROJ_NO: C03292	NSAMPLE	MW31D-060811		
SDG: R1103216	LAB_ID	R1103216-005		
FRACTION: MISC	SAMP_DATE	6/8/2011		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.01	U	

PROJ_NO: C03292	NSAMPLE	MSA-SW37A-060811			MSA-SW37B-060811			MSA-SW37C-060811			MSA-SW38A-060811		
SDG: R1103210	LAB_ID	R1103210-001			R1103210-002			R1103210-003			R1103210-004		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.053			0.062			0.048			0.054		

PROJ_NO: C03292	NSAMPLE	MSA-SW38B-060811			MSA-SW38C-060811			MSA-SW39A-060811			MSA-SW39B-060811		
SDG: R1103210	LAB_ID	R1103210-005			R1103210-006			R1103210-007			R1103210-008		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.055			0.052			0.046			0.046		

PROJ_NO: C03292	NSAMPLE	MSA-SW39C-060811			MSA-SW40A-060811			MSA-SW40B-060811			MSA-SW40C-060811		
SDG: R1103210	LAB_ID	R1103210-009			R1103210-010			R1103210-011			R1103210-012		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.047			0.046			0.053			0.051		

PROJ_NO: C03292	NSAMPLE	MSA-SW41A-060811			MSA-SW41B-060811			MSA-SW41C-060811			MSA-SW42A-060811		
SDG: R1103210	LAB_ID	R1103210-013			R1103210-014			R1103210-015			R1103210-016		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.055			0.054			0.051			0.058		

PROJ_NO: C03292	NSAMPLE	MSA-SW42B-060811			MSA-SW42C-060811			MSA-SW43A-060811			MSA-SW43B-060811		
SDG: R1103210	LAB_ID	R1103210-017			R1103210-018			R1103210-019			R1103210-020		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.052			0.054			0.05			0.051		

PROJ_NO: C03292	NSAMPLE	MSA-SW43C-060811			MSA-SW44A-060811			MSA-SW44B-060811			MSA-SW44C-060811		
SDG: R1103210	LAB_ID	R1103210-021			R1103210-022			R1103210-023			R1103210-024		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.056			0.052			0.049	L	H	0.059	L	H

PROJ_NO: C03292	NSAMPLE	MSA-SW45A-060811			MSA-SW45B-060811			MSA-SW45C-060811		
SDG: R1103210	LAB_ID	R1103210-025			R1103210-026			R1103210-027		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0		
	DUP_OF									
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.05	L	H	0.047	L	H	0.044	L	H

PROJ_NO: C03292	NSAMPLE	DMW3I-060811			DMW5I-060811			DMW5S-060811			MW30D-060811		
SDG: R1103216	LAB_ID	R1103216-004			R1103216-002			R1103216-003			R1103216-001		
FRACTION: MISC	SAMP_DATE	6/8/2011			6/8/2011			6/8/2011			6/8/2011		
MEDIA: WATER	QC_TYPE	NM			NM			NM			NM		
	UNITS	UG/L			UG/L			UG/L			UG/L		
	PCT_SOLIDS	0.0			0.0			0.0			0.0		
	DUP_OF												
PARAMETER		RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD	RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.01	U		0.01	UL	H	0.01	UL	H	0.02	L	H

PROJ_NO: C03292	NSAMPLE	MW31D-060811		
SDG: R1103216	LAB_ID	R1103216-005		
FRACTION: MISC	SAMP_DATE	6/8/2011		
MEDIA: WATER	QC_TYPE	NM		
	UNITS	UG/L		
	PCT_SOLIDS	0.0		
	DUP_OF			
PARAMETER		RESULT	VQL	QLCD
HEXAVALENT CHROMIUM		0.01	U	

APPENDIX B

RESULTS AS REPORTED BY THE LABORATORY

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103025
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	5/31/11 1405
Sample Matrix:	Water	**Date Received:**	6/ 1/11
Sample Name:	DMW4D-053111		
Lab Code:	R1103025-002	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/1/11 11:19	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103025
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	5/31/11 1540
Sample Matrix:	Water	**Date Received:**	6/ 1/11
Sample Name:	DMW4I-053111		
Lab Code:	R1103025-004	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/1/11 11:51	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103025
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	5/31/11 1207
Sample Matrix:	Water	**Date Received:**	6/ 1/11
Sample Name:	MW26S-053111		
Lab Code:	R1103025-001	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/1/11 11:10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103025
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	5/31/11 1604
Sample Matrix:	Water	**Date Received:**	6/ 1/11
Sample Name:	MW32I -053111		
Lab Code:	R1103025-005	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/1/11 11:59	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103025
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	5/31/11 1428
Sample Matrix:	Water	**Date Received:**	6/ 1/11
Sample Name:	MW32S-053111		
Lab Code:	R1103025-003	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/1/11 11:43	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103063
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 1/11 1331
Sample Matrix:	Water	**Date Received:**	6/ 2/11
Sample Name:	DMW1A-060111		
Lab Code:	R1103063-004	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/2/11 12:55	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103063
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 1/11 1244
Sample Matrix:	Water	**Date Received:**	6/ 2/11
Sample Name:	DMW1B-060111		
Lab Code:	R1103063-003	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/2/11 12:46	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103063
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 1/11 1555
Sample Matrix:	Water	**Date Received:**	6/ 2/11
Sample Name:	DMW1S-060111		
Lab Code:	R1103063-005	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/2/11 13:19	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103063
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 1/11 1230
Sample Matrix:	Water	**Date Received:**	6/ 2/11
Sample Name:	MW19D-060111		
Lab Code:	R1103063-001	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/2/11 12:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103063
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 1/11 1237
Sample Matrix:	Water	**Date Received:**	6/ 2/11
Sample Name:	MW19I-060111		
Lab Code:	R1103063-002	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/2/11 12:38	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103105
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 2/11 1545
Sample Matrix:	Water	**Date Received:**	6/ 3/11
Sample Name:	DMW10S-060211		
Lab Code:	R1103105-006	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/3/11 12:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103105
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 2/11 1535
Sample Matrix:	Water	**Date Received:**	6/ 3/11
Sample Name:	MW22D-060211		
Lab Code:	R1103105-005	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/3/11 12:24	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103105
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 2/11 1319
Sample Matrix:	Water	**Date Received:**	6/ 3/11
Sample Name:	MW23D-060211		
Lab Code:	R1103105-003	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/3/11 12:07	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103105
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 2/11 1215
Sample Matrix:	Water	**Date Received:**	6/ 3/11
Sample Name:	MW23S-060211		
Lab Code:	R1103105-001	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/3/11 11:51	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103105
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 2/11 1335
Sample Matrix:	Water	**Date Received:**	6/ 3/11
Sample Name:	MW24I-060211		
Lab Code:	R1103105-004	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/3/11 12:15	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103105
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 2/11 1230
Sample Matrix:	Water	**Date Received:**	6/ 3/11
Sample Name:	MW24S-060211		
Lab Code:	R1103105-002	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/3/11 11:59	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103161
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 6/11 1735
Sample Matrix:	Water	**Date Received:**	6/ 7/11
Sample Name:	DMW9D-060611		
Lab Code:	R1103161-010	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/7/11 13:14	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103161
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 6/11 1540
Sample Matrix:	Water	**Date Received:**	6/ 7/11
Sample Name:	DMW9I-060611		
Lab Code:	R1103161-006	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/7/11 12:25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103161
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 6/11 1245
Sample Matrix:	Water	**Date Received:**	6/ 7/11
Sample Name:	DMW9S-0060611		
Lab Code:	R1103161-002	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/7/11 11:53	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103161
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 6/11 1225
Sample Matrix:	Water	**Date Received:**	6/ 7/11
Sample Name:	MW17S-060611		
Lab Code:	R1103161-001	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/7/11 11:44	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103161
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 6/11 1355
Sample Matrix:	Water	**Date Received:**	6/ 7/11
Sample Name:	MW18I-060611		
Lab Code:	R1103161-004	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/7/11 12:09	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103161
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 6/11 1605
Sample Matrix:	Water	**Date Received:**	6/ 7/11
Sample Name:	MW18S-060611		
Lab Code:	R1103161-007	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/7/11 12:34	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103161
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 6/11 1705
Sample Matrix:	Water	**Date Received:**	6/ 7/11
Sample Name:	MW25I-060611		
Lab Code:	R1103161-009	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/7/11 12:50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103161
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 6/11 1656
Sample Matrix:	Water	**Date Received:**	6/ 7/11
Sample Name:	MW25S-060611		
Lab Code:	R1103161-008	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/7/11 12:42	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103161
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 6/11 1347
Sample Matrix:	Water	**Date Received:**	6/ 7/11
Sample Name:	MW27D-060611		
Lab Code:	R1103161-003	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/7/11 12:01	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103161
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	6/ 6/11 1527
Sample Matrix:	Water	**Date Received:**	6/ 7/11
Sample Name:	MW28I-060611		
Lab Code:	R1103161-005	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/7/11 12:17	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC03292
Sample Matrix: Water

Sample Name: MSA-SW37A-060811
Lab Code: R1103210-001

Service Request: R1103210
Date Collected: 6/ 8/11 1316
Date Received: 6/ 9/11

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.053**		µg/L	0.020	0.010	1	NA	6/9/11 13:06	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1323
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW37B-060811		
Lab Code:	R1103210-002	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.062**		µg/L	0.020	0.010	1	NA	6/9/11 13:14	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1328
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW37C-060811		
Lab Code:	R1103210-003	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.048**		µg/L	0.020	0.010	1	NA	6/9/11 13:22	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1222
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW38A-060811		
Lab Code:	R1103210-004	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.054**		µg/L	0.020	0.010	1	NA	6/9/11 10:46	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1223
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW38B-060811		
Lab Code:	R1103210-005	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.055**		µg/L	0.020	0.010	1	NA	6/9/11 10:54	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1224
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW38C-060811		
Lab Code:	R1103210-006	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.052**		µg/L	0.020	0.010	1	NA	6/9/11 11:02	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1245
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW39A-060811		
Lab Code:	R1103210-007	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.046**		µg/L	0.020	0.010	1	NA	6/9/11 12:12	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1246
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW39B-060811		
Lab Code:	R1103210-008	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.046**		µg/L	0.020	0.010	1	NA	6/9/11 12:19	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1247
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW39C-060811		
Lab Code:	R1103210-009	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.047**		µg/L	0.020	0.010	1	NA	6/9/11 12:27	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1229
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW40A-060811		
Lab Code:	R1103210-010	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.046**		µg/L	0.020	0.010	1	NA	6/9/11 11:25	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1230
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW40B-060811		
Lab Code:	R1103210-011	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.053**		µg/L	0.020	0.010	1	NA	6/9/11 11:33	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/1121C03292	**Date Collected:**	6/ 8/11 1231
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW40C-060811		
Lab Code:	R1103210-012	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.051**		µg/L	0.020	0.020	1	NA	6/9/11 11:41	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1216
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW41A-060811		
Lab Code:	R1103210-013	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.055**		µg/L	0.020	0.010	1	NA	6/9/11 10:23	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1217
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW41B-060811		
Lab Code:	R1103210-014	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.054**		µg/L	0.020	0.010	1	NA	6/9/11 10:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1218
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW41C-060811		
Lab Code:	R1103210-015	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.051**		µg/L	0.020	0.010	1	NA	6/9/11 10:38	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1235
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW42A-060811		
Lab Code:	R1103210-016	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.058**		µg/L	0.020	0.010	1	NA	6/9/11 11:48	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1236
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW42B-060811		
Lab Code:	R1103210-017	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.052**		µg/L	0.020	0.010	1	NA	6/9/11 11:56	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1237
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW42C-060811		
Lab Code:	R1103210-018	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.054**		µg/L	0.020	0.010	1	NA	6/9/11 12:04	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1210
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW43A-060811		
Lab Code:	R1103210-019	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.050**		µg/L	0.020	0.010	1	NA	6/9/11 09:58	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1211
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW43B-060811		
Lab Code:	R1103210-020	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.051**		µg/L	0.020	0.010	1	NA	6/9/11 10:07	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1212
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW43C-060811		
Lab Code:	R1103210-021	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.056**		µg/L	0.020	0.010	1	NA	6/9/11 10:15	

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1259
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW44A-060811		
Lab Code:	R1103210-022	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.052**		µg/L	0.020	0.010	1	NA	6/9/11 12:35	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1300
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW44B-060811		
Lab Code:	R1103210-023	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.049**		µg/L	0.020	0.010	1	NA	6/9/11 13:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1301
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW44C-060811		
Lab Code:	R1103210-024	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.059**		µg/L	0.020	0.010	I	NA	6/9/11 13:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1253
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW45A-060811		
Lab Code:	R1103210-025	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.050**		µg/L	0.020	0.010	1	NA	6/9/11 13:45	

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC03292
Sample Matrix: Water

Service Request: R1103210
Date Collected: 6/ 8/11 1255
Date Received: 6/ 9/11

Sample Name: MSA-SW45B-060811
Lab Code: R1103210-026

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.047**		µg/L	0.020	0.010	1	NA	6/9/11 13:53	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	6/ 8/11 1254
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MSA-SW45C-060811		
Lab Code:	R1103210-027	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	**0.044**		µg/L	0.020	0.010	1	NA	6/9/11 14:01	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103216
Project:	MSA Groundwater/112IC03292-02	**Date Collected:**	6/ 8/11 1501
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	DMW3I-060811		
Lab Code:	R1103216-004	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/9/11 14:40	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103216
Project:	MSA Groundwater/112IC03292-02	**Date Collected:**	6/ 8/11 1345
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	DMW5I-060811		
Lab Code:	R1103216-002	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/9/11 14:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103216
Project:	MSA Groundwater/112IC03292-02	**Date Collected:**	6/ 8/11 1205
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	DMW5S-060811		
Lab Code:	R1103216-003	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/9/11 14:08	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103216
Project:	MSA Groundwater/112IC03292-02	**Date Collected:**	6/ 8/11 1225
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MW30D-060811		
Lab Code:	R1103216-001	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020		µg/L	0.020	0.010	1	NA	6/9/11 14:47	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103216
Project:	MSA Groundwater/112IC03292-02	**Date Collected:**	6/ 8/11 1545
Sample Matrix:	Water	**Date Received:**	6/ 9/11
Sample Name:	MW31D-060811		
Lab Code:	R1103216-005	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/9/11 14:55	

APPENDIX C

SUPPORT DOCUMENTATION

HOLD TIME

SDG R1103025

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
CR6	UG/L	MSA-SW37B-060811	R1103210-002	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	DMW10S-060211	R1103105-006	NM	06/02/2011	06/03/2011	06/03/2011	1	0	1
CR6	UG/L	MSA-SW41C-060811	R1103210-015	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW41B-060811	R1103210-014	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW41A-060811	R1103210-013	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW40C-060811	R1103210-012	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW40B-060811	R1103210-011	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW40A-060811	R1103210-010	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW39C-060811	R1103210-009	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW39B-060811	R1103210-008	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW39A-060811	R1103210-007	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW38C-060811	R1103210-006	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW38B-060811	R1103210-005	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW42B-060811	R1103210-017	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW37C-060811	R1103210-003	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
CR6	UG/L	MSA-SW42C-060811	R1103210-018	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW37A-060811	R1103210-001	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	DMW9S-0060611	R1103161-002	NM	06/06/2011	06/07/2011	06/07/2011	1	0	1
CR6	UG/L	DMW9I-060611	R1103161-006	NM	06/06/2011	06/07/2011	06/07/2011	1	0	1
CR6	UG/L	DMW9D-060611	R1103161-010	NM	06/06/2011	06/07/2011	06/07/2011	1	0	1
CR6	UG/L	DMW5S-060811	R1103216-003	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	DMW5I-060811	R1103216-002	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	DMW4I-053111	R1103025-004	NM	05/31/2011	06/01/2011	06/01/2011	1	0	1
CR6	UG/L	DMW4D-053111	R1103025-002	NM	05/31/2011	06/01/2011	06/01/2011	1	0	1
CR6	UG/L	DMW3I-060811	R1103216-004	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	DMW1S-060111	R1103063-005	NM	06/01/2011	06/02/2011	06/02/2011	1	0	1
CR6	UG/L	DMW1B-060111	R1103063-003	NM	06/01/2011	06/02/2011	06/02/2011	1	0	1
CR6	UG/L	DMW1A-060111	R1103063-004	NM	06/01/2011	06/02/2011	06/02/2011	1	0	1
CR6	UG/L	MSA-SW38A-060811	R1103210-004	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MW19D-060111	R1103063-001	NM	06/01/2011	06/02/2011	06/02/2011	1	0	1
CR6	UG/L	MW32I -053111	R1103025-005	NM	05/31/2011	06/01/2011	06/01/2011	1	0	1
CR6	UG/L	MW31D-060811	R1103216-005	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MW30D-060811	R1103216-001	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
CR6	UG/L	MW28I-060611	R1103161-005	NM	06/06/2011	06/07/2011	06/07/2011	1	0	1
CR6	UG/L	MW27D-060611	R1103161-003	NM	06/06/2011	06/07/2011	06/07/2011	1	0	1
CR6	UG/L	MW26S-053111	R1103025-001	NM	05/31/2011	06/01/2011	06/01/2011	1	0	1
CR6	UG/L	MW25S-060611	R1103161-008	NM	06/06/2011	06/07/2011	06/07/2011	1	0	1
CR6	UG/L	MW25I-060611	R1103161-009	NM	06/06/2011	06/07/2011	06/07/2011	1	0	1
CR6	UG/L	MW24S-060211	R1103105-002	NM	06/02/2011	06/03/2011	06/03/2011	1	0	1
CR6	UG/L	MW24I-060211	R1103105-004	NM	06/02/2011	06/03/2011	06/03/2011	1	0	1
CR6	UG/L	MW23S-060211	R1103105-001	NM	06/02/2011	06/03/2011	06/03/2011	1	0	1
CR6	UG/L	MW23D-060211	R1103105-003	NM	06/02/2011	06/03/2011	06/03/2011	1	0	1
CR6	UG/L	MSA-SW42A-060811	R1103210-016	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MW19I-060111	R1103063-002	NM	06/01/2011	06/02/2011	06/02/2011	1	0	1
CR6	UG/L	MW32S-053111	R1103025-003	NM	05/31/2011	06/01/2011	06/01/2011	1	0	1
CR6	UG/L	MW18S-060611	R1103161-007	NM	06/06/2011	06/07/2011	06/07/2011	1	0	1
CR6	UG/L	MW18I-060611	R1103161-004	NM	06/06/2011	06/07/2011	06/07/2011	1	0	1
CR6	UG/L	MW17S-060611	R1103161-001	NM	06/06/2011	06/07/2011	06/07/2011	1	0	1
CR6	UG/L	MSA-SW45C-060811	R1103210-027	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW45B-060811	R1103210-026	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW45A-060811	R1103210-025	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1

SORT	UNITS	NSAMPLE	LAB_ID	QC_TYPE	SAMP_DATE	EXTR_DATE	ANAL_DATE	SMP_EXTR	EXTR_ANL	SMP_ANL
CR6	UG/L	MSA-SW44C-060811	R1103210-024	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW44B-060811	R1103210-023	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW44A-060811	R1103210-022	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW43C-060811	R1103210-021	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW43B-060811	R1103210-020	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MSA-SW43A-060811	R1103210-019	NM	06/08/2011	06/09/2011	06/09/2011	1	0	1
CR6	UG/L	MW22D-060211	R1103105-005	NM	06/02/2011	06/03/2011	06/03/2011	1	0	1

Columbia Analytical Services™

REPORT QUALIFIERS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.

ACCREDITED IN ACCORDANCE WITH nelac

CAS/Rochester Lab ID # for State Certifications[1]

NELAP Accredited
Connecticut ID # PH0556
Delaware Accredited
DoD ELAP #65817
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Nebraska Accredited
Nevada ID # NY-00032
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

Client:	Tetra Tech NUS, Inc.	**Service Request No.:**	R1103025
Project:	MSA Groundwater	**Project Number:**	112IC03292 Task 2
Sample Matrix:	Water	**Date Received:**	6/01/11

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Water samples were collected on 5/31/11 and received at CAS in good condition at a cooler temperature of 4 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested.

Hexavalent Chromium Analysis – 218.6

Five water samples were analyzed for CR+6 by EPA method 218.6, low level. Values detected between the MDL and PQL have been flagged with a "J" as estimated.

All samples were analyzed within the 24 hour holding time.

All the initial and continuing calibration criteria were met.

The Blank Spike (LCS) recovery was within QC limits.

A Matrix Spike/Matrix Spike duplicate was not requested but was analyzed on sample DMW4D-053111. The recoveries and RPD's were within QC limits.

The Laboratory Blank associated with these samples was free of contamination except CCB2 from 6/01/11 had a "J" flagged value for CR+6. No data was affected.

No other analytical or QC problems were encountered.

Columbia Analytical Services™ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: Martin State Airport	Project Number:
Project Manager: Tony Apanavage	Report CC:
Company/Address: Tetra Tech NUS 20251 Century Blvd STE 200 Germantown MD. 20874	
Phone #: 301 528-3021	E-mail:
Sampler's Signature:	Sampler's Printed Name: Walt Payson

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608	PCB's ☐ 8082 ☐ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Hex Chrom								REMARKS/ ALTERNATE DESCRIPTION
PRESERVATIVE														–							
MW26S-053111		5-31-11	1207	Water	1								X								
DMW4D-053111		↓	1405	↓	1								X								
MW32S-05311			1428		1								X								
DMW4I-052111			1540		1								X								
MW32I-053111		↓	1604	↓	1								X								

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals 24 TAT

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED:

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
1 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
____ Standard

REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

R1103025
Tetra Tech NUS,Inc.
Lockheed Martin MRC

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Printed Name: Walt Payson	Printed Name: B. Boyle	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: TtNUS	Firm:	Firm:	Firm:	Firm:	Firm:
Date/Time: 5-31-11 / 1700	Date/Time: 6/1/11 0939	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 10/2010

Columbia Analytical Services — CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: Martin State Airport	Project Number:
Project Manager: Tony Apanavage	Report CC:
Company/Address: Tetra Tech NUS 20251 Century Blvd STE 200 Germantown MD. 20874	
Phone #: 301 528-3021	E-mail:
Sampler's Signature:	Sampler's Printed Name: Walt Pryor

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: — (Hex Chrom)

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's 8260 GC/MS SVOA's 8270 GC VOA's 8021 PESTICIDES 8081 PCB's 8082 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) Hex Chrom	REMARKS/ ALTERNATE DESCRIPTION
MW26S-053111		5-31-11	1207	Water	1	X	
DMW4D-053111			1405		1	X	
MW32S-05311			1428		1	X	
DMW4I-052111			1540		1	X	
MW32I-053111			1604		1	X	

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other

SPECIAL INSTRUCTIONS/COMMENTS
Metals 24 TAT

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED:

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
1 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
____ Standard

REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

R1103025
Tetra Tech NUS,Inc.
Lockheed Martin MRC

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature:	Signature: B Doyle	Signature:	Signature:	Signature:	Signature:
Printed Name: Walt Pryor	Printed Name: B Doyle	Printed Name:	Printed Name:	Printed Name:	Printed Name:
Firm: TtNUS	Firm: CAS	Firm:	Firm:	Firm:	Firm:
Date/Time: 5-31-11 / 1700	Date/Time: 6/1/11 0939	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 10/2010

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
5/27/11 0936	R1102977-013	7199 218.6RL 218.6LL	Water DrinkingWater	5/26/11 1505	Yes No Field	—	9.04	9.44	GW 5/27/11 1322	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
5/28/11 1010	PNSP2-USGSZ-180 R1102977-019	7199 218.6RL 218.6LL	Water DrinkingWater	5/27/11 1030	Yes No Field	—	8.476	9.394	BD 5/28/11 1137	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
5/28/11 1010	PNSP2-GW-EB R1102977-021	7199 218.6RL 218.6LL	Water DrinkingWater	5/27/11 1130	Yes No Field	—	8.579	9.412	BD 5/28/11 1148	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/1/11 0815	filter blank	7199 218.6RL 218.6LL	Water DrinkingWater	—	Yes No Field	Millex HV RONA88641K	5.882	9.435	BD 6/1/11 0850	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/1/11 0815	Herberger R11-3020-001	7199 218.6RL 218.6LL	Water DrinkingWater	5/31/11 0805 PST	Yes No Field	Millex HV RONA88641K	7.718	9.301	BD 6/1/11 0855	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/1/11 0815	LCC R11-3020-002	7199 218.6RL 218.6LL	Water DrinkingWater	5/31/11 0745 PST	Yes No Field	Millex HV RONA88641K	7.943	9.291	BD 6/1/11 0900	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/1/11 0815	CMC R11-3020-003	7199 218.6RL 218.6LL	Water DrinkingWater	5/31/11 0730 PST	Yes No Field	Millex HV RONA88641K	7.726	9.322	BD 6/1/11 0910	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/1/11 0939	R1103025-003 mw325 did to brown	7199 218.6RL 218.6LL	Water DrinkingWater	5/31/11 1428	Yes No Field	Millex HV RONA88641K	5.82	9.41	GMW 6/1/11 1037	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/1/11 0939	R1103025-004 DMW4I did to green	7199 218.6RL 218.6LL	Water DrinkingWater	5/31/11 1540	Yes No Field	Millex HV RONA88641K	4.43	9.30	GMW 6/1/11 1038	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
6/1/11 0939	R1103025-005 32I Δ'd to brown	7199 218.6RL (218.6LL)	(Water) DrinkingWater	5/31/11 1604	(Yes) No Field	Millex HV RONA88641K	6.93	9.49	[initials] 6/1/11 1040	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/1/11 0939	R1103025-001 MW26S Δ'd to white	7199 218.6RL (218.6LL)	(Water) DrinkingWater	5/31/11 1207	(Yes) No Field	Millex HV RONA88641K	7.16	9.36	[initials] 6/1/11 1042	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/1/11 0939	R1103025-002 DMW4D	7199 218.6RL (218.6LL)	(Water) DrinkingWater	5/31/11 1405	(Yes) No Field	Millex HV RONA88641K	4.57	9.30	[initials] 6/1/11 1043	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
		7199 218.6RL 218.6LL	Water DrinkingWater		Yes No Field					Buffer 10%H2SO4 10%NaOH*	
		7199 218.6RL 218.6LL	Water DrinkingWater		Yes No Field					Buffer 10%H2SO4 10%NaOH*	
		7199 218.6RL 218.6LL	Water DrinkingWater		Yes No Field					Buffer 10%H2SO4 10%NaOH*	
		7199 218.6RL 218.6LL	Water DrinkingWater		Yes No Field					Buffer 10%H2SO4 10%NaOH*	
		7199 218.6RL 218.6LL	Water DrinkingWater		Yes No Field					Buffer 10%H2SO4 10%NaOH*	
		7199 218.6RL 218.6LL	Water DrinkingWater		Yes No Field					Buffer 10%H2SO4 10%NaOH*	

6/1/11

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7
*** Regular Level Cr+6 only**

Columbia Analytical Services
1 Mustard St., Suite 250
Rochester, NY 14609-0859

Analyst: CWoods EWolfe
Date: 6/1/11
pH Meter ID: Bullwinkle
Adjustment Solutions: Buffer - WC103052F

Hexavalent Chromium: Method 218.6-RL* Method 218.6-LL** Method 7199

Folder Number	Sample ID	Sample pH at analysis	Analysis Date
	Filter Blank	9.44	6/1/11 **
3020	R1103020-001	9.30	6/1/11 **
	R1103020-002	9.29	6/1/11 **
	R1103020-003	9.32	6/1/11 **
3025	R1103025-003	9.41	6/1/11 **
	R1103025-004	9.3	6/1/11 **
	R1103025-005	9.49	6/1/11 **
	R1103025-001	9.36	6/1/11 **
	R1103025-002	9.3	6/1/11 **
2977	R1102977-019	9.41	6/1/11 *
	R1102977-021	9.41	6/1/11 *

6/2/11

*Note: Sample pH must be between 9.3 and 9.7 for 218.6 Regular Level

**Note: Sample pH must be between 9.0 and 9.5 for 7199 and 218.6 Low Level

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** CWOODS **Analysis Lot:** 248426 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1105282-04	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.495 µg/L	1					6/1/11 10:46:00	N	IV
RQ1105282-06	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/1/11 10:54:00	N	IV
RQ1105282-07	Chromium, Hexavalent, Dissolved	MB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/1/11 10:54:00	N	IV
RQ1105282-08	Chromium, Hexavalent, Dissolved	LCS		Water	0.21 µg/L	10 mL	0.206 µg/L	1	0.010	0.020	103		6/1/11 11:02:00	N	IV
R1103025-001	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/1/11 11:10:00	N	IV
R1103025-002	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/1/11 11:19:00	N	IV
RQ1105282-01	Chromium, Hexavalent, Dissolved	MS	R1103025-002	Water	0.19 µg/L	10 mL	0.190 µg/L	1	0.010	0.020	95		6/1/11 11:27:00	N	IV
RQ1105282-02	Chromium, Hexavalent, Dissolved	DMS	R1103025-002	Water	0.20 µg/L	10 mL	0.205 µg/L	1	0.010	0.020	102	7	6/1/11 11:35:00	N	IV
R1103025-003	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/1/11 11:43:00	N	IV
R1103025-004	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/1/11 11:51:00	N	IV
R1103025-005	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/1/11 11:59:00	N	IV
RQ1105282-03	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.504 µg/L	1					6/1/11 12:24:00	N	IV
RQ1105282-05	Chromium, Hexavalent, Dissolved	CCB		Water	0.02 µg/L	10 mL	0.017 µg/L J	1	0.010	0.020			6/1/11 12:32:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103025
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1103025-MB	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/1/11 10:54	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292 Task 02
Sample Matrix: Water

Service Request: R1103025
Date Collected: 5/31/11
Date Received: 6/1/11
Date Analyzed: 6/ 1/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: DMW4D-053111
Lab Code: R1103025-002

Units: µg/L
Basis: NA

Analytical Method: 218.6

Analyte Name	Sample Result	DMW4D-053111MS Matrix Spike R1103025-002MS Result	Spike Amount	% Rec	DMW4D-053111DMS Duplicate Matrix Spike R1103025-002DMS Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Chromium, Hexavalent, Dissolved	ND	0.190	0.200	95	0.205	0.200	102	90 - 110	7	20

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292 Task 02
Sample Matrix: Water

Service Request: R1103025
Date Analyzed: 6/ 1/11

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1103025-LCS Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6	0.206	0.200	103	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

06-01-11 IC#5 218.6LL/218.6RL

Sequence: 06-01-2011LL
Operator: ROCACQGEN03 Analyst: CWood/EWolfe Pipets: Old Blue, Lucy

Printed: 6/2/2011 11:27:37 AM

Title:
Datasource: DJZ93HD1_local
Location: IC5\Data Files\Low-Level Chromium (VI)\2011 Low-Level Chrome\06June2011\06-01-2011
Timebase: IC5
#Samples: 28

Created: 2/17/2010 3:24:15 PM by ROCACQGEN03
Last Update: 6/1/2011 1:25:44 PM by ROCACQGEN03

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	STANDARD 1	Standard	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 10:13:33 AM
2	STANDARD 2	Standard	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 10:21:44 AM
3	STANDARD 3	Standard	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 10:29:55 AM
4	STANDARD 4	Standard	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 10:38:06 AM
5	ICV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 10:46:17 AM
6	ICB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 10:54:28 AM
7	LCS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 11:02:39 AM
8	R1103025-001	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 11:10:50 AM
9	R1103025-002	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 11:19:01 AM
10	R1103025-002 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 11:27:12 AM
11	R1103025-002 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 11:35:23 AM
12	R1103025-003	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 11:43:34 AM
13	R1103025-004	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 11:51:45 AM
14	R1103025-005	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 11:59:56 AM
15	R1103020-001	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 12:08:08 PM
16	R1103020-002	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 12:16:19 PM
17	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 12:24:30 PM
18	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 12:32:41 PM
19	R1103020-003	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 12:40:51 PM
20	R1103020-003 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 12:49:03 PM
21	R1103020-003 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 12:57:14 PM
22	FILTER BLANK FOR 6/1/11	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 1:05:24 PM

2-Copies
R3025
R2977

Reviewed & Approved
By:
Date: 6/5/11

Title:
Datasource: DJZ93HD1_local
Location: IC5\Data Files\Low-Level Chromium (VI)\2011 Low-Level Chrome\06June2011\06-01-2011
Timebase: IC5
#Samples: 28

Created: 2/17/2010 3:24:15 PM by ROCACQGEN03
Last Update: 6/1/2011 1:25:44 PM by ROCACQGEN03

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time
23	R1102977-019	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 1:13:36 PM
24	R1102977-019 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 1:21:47 PM
25	R1102977-019 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 1:29:58 PM
26	R1102977-021	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 1:38:09 PM
27	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 1:46:20 PM
28	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 1:54:31 PM

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292 Task 02

Service Request: R1103025

Continuing Calibration Verification (CCV) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6

Units: µg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	248426	RQ1105282-04	6/1/11 10:46	0.500	0.495	99	95 - 105
CCV2	248426	RQ1105282-03	6/1/11 12:24	0.500	0.504	101	95 - 105

Client: Tetra Tech NUS, Inc. **Service Request:** R1103025
Project: MSA Groundwater/112IC03292 Task 02

Continuing Calibration Blank (CCB) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6 **Units:** µg/L

	Analysis Lot	Lab Code	Date Analyzed	MDL	MRL	Result	Q
CCB1	248426	RQ1105282-06	6/1/11 10:54	0.010	0.020	0.020	U
CCB2	248426	RQ1105282-05	6/1/11 12:32	0.010	0.020	0.017	J

Client:	Tetra Tech NUS, Inc.	**Service Request No.:**	R1103063
Project:	MSA Groundwater	**Project Number:**	112IC03292 Task 2
Sample Matrix:	Water	**Date Received:**	6/02/11

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Water samples were collected on 6/01/11 and received at CAS in good condition at a cooler temperature of 2 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested.

Hexavalent Chromium Analysis – 218.6

Five water samples were analyzed for CR+6 by EPA method 218.6, low level. Values detected between the MDL and PQL have been flagged with a "J" as estimated.

Note: Samples MW19I-060111 and DMW1B-060111 were analyzed 1 and 2 minutes respectfully outside the 24 hour holding time.

All samples were analyzed within the 24 hour holding time.

All the initial and continuing calibration criteria were met.

The Blank Spike (LCS) recovery was within QC limits.

A Matrix Spike/Matrix Spike duplicate was analyzed on sample DMW1S-060111. The recoveries and RPD's were within QC limits.

The Laboratory Blank associated with these samples was free of contamination.

No other analytical or QC problems were encountered.

Columbia Analytical Services™ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: MSA Ground Water Sampling	Project Number:
Project Manager: Tony Apanavage	Report CC:
Company/Address: Tetra Tech NUS 20251 Century Blvd STE 200 Germantown MD, 20874	
Phone #: (301) 528-3021	E-mail:
Sampler's Signature: Walt Payn	Sampler's Printed Name: Walt Payn

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608	PCB's ☐ 8082 ☐ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Hex Chrom	REMARKS/ ALTERNATE DESCRIPTION
MW19D-060111		6-1-11	1230	Water	1								X	
MW19E-060111			1237		1								X	
DMW1B-060111			1244		1								X	
DMW1A-060111			1331		3								X	* MS/MSD
DMW1S-060111			1555		1								X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals Zn JAT

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED:

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
1 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
____ Standard

REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with

Edata ____ Yes ____

INVOICE INFORMATION
PO #:
BILL TO:

R1103063
Tetra Tech NUS,Inc.
Lockheed Martin MRC

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature: Walt Payn	Signature:	Signature	Signature	Signature	Signature
Printed Name: Walt Payn	Printed Name: Gregory LaFave	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TtNUS	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 6-1-11 / 1800	Date/Time: 6/2/11 0947	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 10/2010

Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
6/1/11 0939	R1103025-005 32I Δ'd to brown	7199 218.6RL (218.6LL)	(Water) DrinkingWater	5/31/11 1604	(Yes) No Field	Millex HV RONA88641K	6.93	9.49	CW 6/1/11 1040	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/1/11 0939	R1103025-001 MW26S Δ'd to white	7199 218.6RL (218.6LL)	(Water) DrinkingWater	5/31/11 1207	(Yes) No Field	Millex HV RONA88641K	7.16	9.36	CW 6/1/11 1042	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/1/11 0939	R1103025-002 DMW4D	7199 218.6RL (218.6LL)	(Water) DrinkingWater	5/31/11 1405	(Yes) No Field	Millex HV RONA88641K	4.57	9.30	CW 6/1/11 1043	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/2/11	Filter Blank of 6/2/11	7199 218.6RL (218.6LL)	(Water) DrinkingWater	—	(Yes) No Field	Millex HV RONA88641K	7.86	9.31	CW 6/2/11 1100	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/2/11 0947	R1103063-003 DMW1B Δ'd to green	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/1/11 1244	(Yes) No Field	Millex HV RONA88641K	5.71 ~~4.81~~ CW 6/2/11	9.32 ~~9.33~~	CW 6/2/11 1101	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/2/11 0947	R1103063-002 MW19I Δ'd to orange	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/1/11 1237	(Yes) No Field	Millex HV RONA88641K	5.71	9.35	CW 6/2/11 1102	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/2/11 0947	R1103063-001 MW19D	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/1/11 1230	(Yes) No Field	Millex HV RONA88641K	4.81	9.33	CW 6/2/11 1104	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/2/11 0947	R1103063-005 DMW1S	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/1/11 1555	(Yes) No Field	Millex HV RONA88641K	6.94	9.49	CW 6/2/11 1105	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/2/11 0947	R1103063-004 DMW1A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/1/11 1331	(Yes) No Field	Millex HV RONA88641K	5.48	9.34	CW 6/2/11 1107	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

* Regular Level Cr+6 only

0023

Columbia Analytical Services
1 Mustard St., Suite 250
Rochester, NY 14609-0859

Analyst: CWoods EWolfe
Date: 6/2/11
pH Meter ID: Bullwinkle
Adjustment Solutions: Buffer - WC103052F

Hexavalent Chromium: Method 218.6-RL (Method 218.6-LL) Method 7199

Folder Number	Sample ID	Sample pH at analysis	Analysis Date
	Filter Blank	9.31	6/2/11
3063	R1103063-001	9.33	6/2/11
	R1103063-002	9.35	6/2/11
	R1103063-003	9.32	6/2/11
	R1103063-004	9.34	6/2/11
	R1103063-005	9.49	6/2/11

6/2/11

*Note: Sample pH must be between 9.3 and 9.7 for 218.6 Regular Level

**Note: Sample pH must be between 9.0 and 9.5 for 7199 and 218.6 Low Level

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** CWOODS **Analysis Lot:** 248483 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1105301-03	Chromium, Hexavalent, Dissolved	CCV		Water	0.48 µg/L	10 mL	0.479 µg/L	1					6/2/11 12:00:00	N	IV
RQ1105301-06	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/2/11 12:14:00	N	IV
RQ1105301-07	Chromium, Hexavalent, Dissolved	MB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/2/11 12:14:00	N	IV
RQ1105301-08	Chromium, Hexavalent, Dissolved	LCS		Water	0.21 µg/L	10 mL	0.205 µg/L	1	0.010	0.020	103		6/2/11 12:22:00	N	IV
R1103063-001	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/2/11 12:30:00	N	IV
R1103063-002	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/2/11 12:38:00	N	IV
R1103063-003	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/2/11 12:46:00	N	IV
R1103063-004	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/2/11 12:55:00	Y	IV
R1103063-005	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/2/11 13:19:00	N	IV
RQ1105301-02	Chromium, Hexavalent, Dissolved	CCV		Water	0.49 µg/L	10 mL	0.489 µg/L	1					6/2/11 13:36:00	N	IV
RQ1105301-05	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/2/11 13:44:00	N	IV
RQ1105301-09	Chromium, Hexavalent, Dissolved	MS	R1103063-004	Water	0.20 µg/L	10 mL	0.203 µg/L	1	0.010	0.020	101		6/2/11 13:52:00	N	IV
RQ1105301-10	Chromium, Hexavalent, Dissolved	DMS	R1103063-004	Water	0.21 µg/L	10 mL	0.208 µg/L	1	0.010	0.020	104	3	6/2/11 14:00:00	N	IV
RQ1105301-01	Chromium, Hexavalent, Dissolved	CCV		Water	0.48 µg/L	10 mL	0.483 µg/L	1					6/2/11 14:08:00	N	IV
RQ1105301-04	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/2/11 14:17:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Printed 6/2/11 15:05

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103063
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1103063-MB	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/2/11 12:14	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292 Task 02
Sample Matrix: Water

Service Request: R1103063
Date Collected: 6/1/11
Date Received: 6/2/11
Date Analyzed: 6/ 2/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: DMW1A-060111
Lab Code: R1103063-004

Units: µg/L
Basis: NA

Analytical Method: 218.6

Analyte Name	Sample Result	DMW1A-060111MS Matrix Spike R1103063-004MS Result	Spike Amount	% Rec	DMW1A-060111DMS Duplicate Matrix Spike R1103063-004DMS Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Chromium, Hexavalent, Dissolved	ND	0.203	0.200	101	0.208	0.200	104	90 - 110	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292 Task 02
Sample Matrix: Water

Service Request: R1103063
Date Analyzed: 6/ 2/11

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1103063-LCS Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6	0.205	0.200	103	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

06-02-11 IC#5 218.6 LL

Sequence: 06-02-2011LL
Operator: ROCACQGEN03 Analysts: CWoods EWolfe Pipets: Ol' Blue, Lucy

Printed: 6/2/2011 2:35:33 PM

Title:
Datasource: DJZ93HD1_local
Location: IC5\Data Files\Low-Level Chromium (VI)\2011 Low-Level Chrome\06June2011\06-02-2011
Timebase: IC5
#Samples: 21

Created: 2/17/2010 3:24:15 PM by ROCACQGEN03
Last Update: 6/2/2011 2:35:12 PM by ROCACQGEN03

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Dil. Factor	Comment
1	STANDARD 1	Standard	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 10:13:33 AM	1.0000	218.6LL/218.6RL
2	STANDARD 2	Standard	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 10:21:44 AM	1.0000	218.6LL/218.6RL
3	STANDARD 3	Standard	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 10:29:55 AM	1.0000	218.6LL/218.6RL
4	STANDARD 4	Standard	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/1/2011 10:38:06 AM	1.0000	218.6LL/218.6RL
5	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 12:00:01 PM	1.0000	218.6LL/218.6RL
6	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 12:14:14 PM	1.0000	218.6LL/218.6RL
7	LCS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 12:22:26 PM	1.0000	218.6LL/218.6RL
8	R1103063-001	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 12:30:37 PM	1.0000	218.6LL
9	R1103063-002	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 12:38:48 PM	1.0000	218.6LL
10	R1103063-003	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 12:46:59 PM	1.0000	218.6LL
11	R1103063-004	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 12:55:10 PM	1.0000	218.6LL
12	R1103063-004 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 1:03:21 PM	1.0000	218.6LL
13	R1103063-004 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 1:11:32 PM	1.0000	218.6LL
14	R1103063-005	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 1:19:43 PM	1.0000	218.6LL
15	FILTER BLANK FOR 6/2/11	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 1:27:54 PM	1.0000	218.6LL
16	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 1:36:05 PM	1.0000	218.6LL
17	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 1:44:16 PM	1.0000	218.6LL
18	R1103063-004 MS REPEAT	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 1:52:27 PM	1.0000	218.6LL
19	R1103063-004 MSD REPEAT	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 2:00:38 PM	1.0000	218.6LL
20	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 2:08:49 PM	1.0000	218.6LL
21	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060111CLL	Finished	6/2/2011 2:17:00 PM	1.0000	218.6LL

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R-3063

Reviewed & Approved
By:
Date: 6/5/11

Client: Tetra Tech NUS, Inc. **Service Request:** R1103063
Project: MSA Groundwater/112IC03292 Task 02

Continuing Calibration Verification (CCV) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6 **Units:** µg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	248483	RQ1105301-03	6/2/11 12:00	0.500	0.479	96	95 - 105
CCV2	248483	RQ1105301-02	6/2/11 13:36	0.500	0.489	98	95 - 105
CCV3	248483	RQ1105301-01	6/2/11 14:08	0.500	0.483	97	95 - 105

Client: Tetra Tech NUS, Inc. **Service Request:** R1103063
Project: MSA Groundwater/112IC03292 Task 02

Continuing Calibration Blank (CCB) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6 **Units:** µg/L

	Analysis Lot	Lab Code	Date Analyzed	MDL	MRL	Result	Q
CCB1	248483	RQ1105301-06	6/2/11 12:14	0.010	0.020	0.020	U
CCB2	248483	RQ1105301-05	6/2/11 13:44	0.010	0.020	0.020	U
CCB3	248483	RQ1105301-04	6/2/11 14:17	0.010	0.020	0.020	U

Client:	Tetra Tech NUS, Inc.	**Service Request No.:**	R1103105
Project:	MSA Groundwater	**Project Number:**	112IC03292 Task 2
Sample Matrix:	Water	**Date Received:**	6/03/11

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Water samples were collected on 6/02/11 and received at CAS in good condition at a cooler temperature of 2 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested.

Hexavalent Chromium Analysis – 218.6

Six water samples were analyzed for CR+6 by EPA method 218.6, low level. Values detected between the MDL and PQL have been flagged with a "J" as estimated.

All samples were analyzed within the 24 hour holding time.

All the initial and continuing calibration criteria were met.

The Blank Spike (LCS) recovery was within QC limits.

A Matrix Spike/Matrix Spike duplicate was analyzed on sample DMW10S-060211. Both recoveries were 0 % recovery and have bee flagged with an "*". This is an indication of some matrix interference in the sample.

The Laboratory Blank associated with these samples was free of contamination.

No other analytical or QC problems were encountered.

Columbia Analytical Services™ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: MSB Groundwater Sampling	Project Number: 112ECO3292-02
Project Manager: Tony Apanavage	Report CC:
Company/Address: Tetra Tech NUS 20251 Century Blvd STE 200 Germantown MD 20874	
Phone #: (301) 528-3021	E-mail:
Sampler's Signature: Walt Ryan	Sampler's Printed Name: Walt Ryan

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 5

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐8260 ☐624 ☐CLP	GC/MS SVOA's ☐8270 ☐625	GC VOA's ☐8021 ☐601/602	PESTICIDES ☐8081 ☐608	PCB's ☐8082 ☐608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Hex Chrom							REMARKS/ ALTERNATE DESCRIPTION
MW23S-060211		6-2-11	1215	Water	1								X							
MW24S-060211			1230		1								X							
MW23D-060211			1319		1								X							
MW24I-060211			1335		1								X							
MW22D-060211			1535		1								X							
DMW10S-060211			1545		1								X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals 24 TAT

See QAPP ☐

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
__1__ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
____ Standard
REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

R1103105
Tetra Tech NUS, Inc.
Lockheed Martin MRC

STATE WHERE SAMPLES WERE COLLECTED:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature: Walt Ryan	Signature: Amy Hentschke	Signature	Signature	Signature	Signature
Printed Name: Walt Ryan	Printed Name: Amy Hentschke	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TtNUS	Firm: CAS	Firm	Firm	Firm	Firm
Date/Time: 6-2-11 / 1830	Date/Time: 10/3/11 0930	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 10/2010

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
6/3/11	Filter Blank for 6/3/11	7199 218.6RL 218.6LL	Water DrinkingWater	~~6/2~~ 6/3/11	Yes No Field	millex HV RONA88641K	8.13	9.37	CMW 6/3/11 1107	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-001	7199 218.6RL 218.6LL	Water DrinkingWater	6/2/11 1215	Yes No Field	millex HV RONA88641K	6.85	9.47	CMW 6/3/11 1108	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-002	7199 218.6RL 218.6LL	Water DrinkingWater	6/2/11 1230	Yes No Field	millex HV RONA88641K	4.20	9.36	CMW 6/3/11 1110	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-003	7199 218.6RL 218.6LL	Water DrinkingWater	6/2/11 1319	Yes No Field	Millex HV RONA88641K	7.06	9.41	CMW 6/3/11 1111	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-004	7199 218.6RL 218.6LL	Water DrinkingWater	6/2/11 1335	Yes No Field	Millex HV RONA88641K	4.48	9.37	CMW 6/3/11 1113	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-005	7199 218.6RL 218.6LL	Water DrinkingWater	6/2/11 1535	Yes No Field	Millex HV RONA88641K	6.41	9.44	CMW 6/3/11 1114	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-006	7199 218.6RL 218.6LL	Water DrinkingWater	6/2/11 1545	Yes No Field	millex HV RONA88641K	6.85	9.49	CMW 6/3/11 1117	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
		7199 218.6RL 218.6LL	Water DrinkingWater		Yes No Field					Buffer 10%H2SO4 10%NaOH*	
		7199 218.6RL 218.6LL	Water DrinkingWater		Yes No Field					Buffer 10%H2SO4 10%NaOH*	

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

00025

0024

Columbia Analytical Services
1 Mustard St., Suite 250
Rochester, NY 14609-0859

Analyst: CWoods
Date: 6/3/11
pH Meter ID: Bullwinkle
Adjustment Solutions: Buffer WC103052F

Hexavalent Chromium: Method 218.6-RL Method 218.6-LL Method 7199

Folder Number	Sample ID	Sample pH at analysis	Analysis Date
	Filter Blank	9.37	6/3/11
3105	R1103105-001	9.47	6/3/11
	R1103105-002	9.36	6/3/11
	R1103105-003	~~9.94~~ 9.41	CW 6/10/11 6/3/11
	R1103105-004	9.37	6/3/11
	R1103105-005	9.44	6/3/11
	R1103105-006	9.49	6/3/11

CW 6/3/11

*Note: Sample pH must be between 9.3 and 9.7 for 218.6 Regular Level

**Note: Sample pH must be between 9.0 and 9.5 for 7199 and 218.6 Low Level

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** CWOODS **Analysis Lot:** 248674 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1105370-02	Chromium, Hexavalent, Dissolved	CCV		Water	0.51 µg/L	10 mL	0.506 µg/L	1					6/3/11 11:26:00	N	IV
RQ1105370-04	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/3/11 11:35:00	N	IV
RQ1105370-05	Chromium, Hexavalent, Dissolved	MB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/3/11 11:35:00	N	IV
RQ1105370-06	Chromium, Hexavalent, Dissolved	LCS		Water	0.20 µg/L	10 mL	0.199 µg/L	1	0.010	0.020	99		6/3/11 11:43:00	N	IV
R1103105-001	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/3/11 11:51:00	N	IV
R1103105-002	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/3/11 11:59:00	N	IV
R1103105-003	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/3/11 12:07:00	N	IV
R1103105-004	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/3/11 12:15:00	N	IV
R1103105-005	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/3/11 12:24:00	N	IV
R1103105-006	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/3/11 12:32:00	N	IV
RQ1105370-07	Chromium, Hexavalent, Dissolved	MS	R1103105-006	Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020	0*		6/3/11 12:40:00	N	IV
RQ1105370-08	Chromium, Hexavalent, Dissolved	DMS	R1103105-006	Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020	0*	<1	6/3/11 12:48:00	N	IV
RQ1105370-01	Chromium, Hexavalent, Dissolved	CCV		Water	0.52 µg/L	10 mL	0.517 µg/L	1					6/3/11 12:56:00	N	IV
RQ1105370-03	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/3/11 13:05:00	N	IV

0552

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103105
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1103105-MB	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/3/11 11:35	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292 Task 02
Sample Matrix: Water

Service Request: R1103105
Date Collected: 6/2/11
Date Received: 6/3/11
Date Analyzed: 6/ 3/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: DMW10S-060211
Lab Code: R1103105-006

Units: µg/L
Basis: NA

Analytical Method: 218.6

		DMW10S-060211MS Matrix Spike R1103105-006MS			DMW10S-060211DMS Duplicate Matrix Spike R1103105-006DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chromium, Hexavalent, Dissolved	ND	ND	0.200	0 *	ND	0.200	0 *	90 - 110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292 Task 02
Sample Matrix: Water

Service Request: R1103105
Date Analyzed: 6/ 3/11

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

		Lab Control Sample R1103105-LCS			
Analyte Name	**Method**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**
Chromium, Hexavalent, Dissolved	218.6	0.199	0.200	99	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

06-03-11 IC#5 218.6 LL Analyst: CWoods Pipets: Ol' Blue, Lucy

Sequence: 06-03-2011LL
Operator: ROCACQGEN03

Printed: 6/3/2011 2:37:51 PM

Title:
Datasource: DJZ93HD1_local
Location: IC5\Data Files\Low-Level Chromium (VI)\2011 Low-Level Chrome\06June2011\06-03-2011
Timebase: IC5
#Samples: 20

Created: 2/17/2010 3:24:15 PM by ROCACQGEN03
(Modified, not saved)

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Dil. Factor	Comment
1	STANDARD 1	Standard	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 10:54:05 AM	1.0000	218.6LL/218.6RL
2	STANDARD 2	Standard	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 11:02:16 AM	1.0000	218.6LL/218.6RL
3	STANDARD 3	Standard	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 11:10:28 AM	1.0000	218.6LL/218.6RL
4	STANDARD 4	Standard	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 11:18:39 AM	1.0000	218.6LL/218.6RL
5	ICV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 11:26:50 AM	1.0000	218.6LL/218.6RL
6	ICB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 11:35:01 AM	1.0000	218.6LL/218.6RL
7	LCS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 11:43:12 AM	1.0000	218.6LL/218.6RL
8	R1103105-001	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 11:51:23 AM	1.0000	218.6LL
9	R1103105-002	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 11:59:34 AM	1.0000	218.6LL
10	R1103105-003	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 12:07:45 PM	1.0000	218.6LL
11	R1103105-004	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 12:15:56 PM	1.0000	218.6LL
12	R1103105-005	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 12:24:07 PM	1.0000	218.6LL
13	R1103105-006	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 12:32:18 PM	1.0000	218.6LL
14	R1103105-006 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 12:40:29 PM	1.0000	218.6LL
15	R1103105-006 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 12:48:40 PM	1.0000	218.6LL
16	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 12:56:52 PM	1.0000	218.6LL
17	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 1:05:03 PM	1.0000	218.6LL/218.6RL
18	FILTER BLANK FOR 6/3/11	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 2:08:04 PM	1.0000	218.6LL
19	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 2:16:15 PM	1.0000	218.6LL/218.6RL
20	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060311CLL	Finished	6/3/2011 2:24:26 PM	1.0000	218.6LL/218.6RL

1-Copy

R3105

Reviewed & Approved
By:
Date: 6/13/11

Client: Tetra Tech NUS, Inc. **Service Request:** R1103105
Project: MSA Groundwater/112IC03292 Task 02

Continuing Calibration Verification (CCV) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6 **Units:** µg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	248674	RQ1105370-02	6/3/11 11:26	0.500	0.506	101	95 - 105
CCV2	248674	RQ1105370-01	6/3/11 12:56	0.500	0.517	103	95 - 105

Client: Tetra Tech NUS, Inc. **Service Request:** R1103105
Project: MSA Groundwater/112IC03292 Task 02

Continuing Calibration Blank (CCB) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6 **Units:** µg/L

	Analysis Lot	Lab Code	Date Analyzed	MDL	MRL	Result	Q
CCB1	248674	RQ1105370-04	6/3/11 11:35	0.010	0.020	0.020	U
CCB2	248674	RQ1105370-03	6/3/11 13:05	0.010	0.020	0.020	U

Client:	Tetra Tech NUS, Inc.	**Service Request No.:**	R1103161
Project:	MSA Groundwater	**Project Number:**	112IC03292 Task 2
Sample Matrix:	Water	**Date Received:**	6/07/11

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Water samples were collected on 6/06/11 and received at CAS in good condition at a cooler temperature of 4 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested.

Hexavalent Chromium Analysis – 218.6

Ten water samples were analyzed for CR+6 by EPA method 218.6, low level. Values detected between the MDL and PQL have been flagged with a "J" as estimated.

All samples were analyzed within the 24 hour holding time.

All the initial and continuing calibration criteria were met except CCV3 from 6/07/11 (111 %) which has been flagged with an "*".

The Blank Spike (LCS) recovery was within QC limits.

A Matrix Spike/Matrix Spike duplicate was analyzed on sample DMW9D-060611. The recoveries and RPD's were within QC limits.

The Laboratory Blank associated with these samples was free of contamination.

No other analytical or QC problems were encountered.

Columbia Analytical Services* CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: MSA Groundwater Sampling	Project Number: 112IC03292-02
Project Manager: Tony Aparnavega	Report CC:
Company/Address: Tetra Tech NUS 20251 Century Blvd STE 200 Germantown, MD 20874	
Phone#: (301) 528-3021	E-mail:
Sampler's Signature: Walt Payon	Sampler's Printed Name: Walt Payon

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	PRESERVATIVE	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608	PCB's ☐ 8082 ☐ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	Hex Chrom							REMARKS/ ALTERNATE DESCRIPTION
MW17S-060611		6-6-11	1225	Water	1									X							
DMW9S-060611			1245		1									X							
MW27D-060611			1347		1									X							
MW18I-060611			1355		1									X							
MW28I-060611			1527		1									X							
DMW9I-060611			1540		1									X							
MW18S-060611			1605		1									X							
MW25S-060611			1656		1									X							
MW25I-060611			1705		1									X							
DMW9D-060611			1735		1									X							

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals 24 TAT

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
____ Standard

REQUESTED REPORT DATE

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with P

Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

R1103161
Tetra Tech NUS,Inc.
Lockheed Martin MRC

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature: Walt Payon	Signature: Daniel Wise	Signature	Signature	Signature	Signature
Printed Name: Walt Payon	Printed Name: CAS	Printed Name	Printed Name	Printed Name	Printed Name
Firm: TtNUS	Firm: 6/7/11/0948	Firm	Firm	Firm	Firm
Date/Time: 6-6-11 / 1930	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 10/2010

Columbia Analytical Services
1 Mustard St., Suite 250
Rochester, NY 14609-0859

Analyst: C. WOODS
Date: 6/7/2011
pH Meter ID: BULLWINKLE
Adjustment Solutions: WC103052F

Hexavalent Chromium: Method 218.6-RL Method 218.6-LL Method 7199

Folder Number	Sample ID	Sample pH at analysis	Analysis Date
	Filter Blank	9.32	6/7/11
3132	R1103132-001	9.30	6/7/11
3161	R1103161-001	9.38	6/7/11
	R1103161-002	9.33	6/7/11
	R1103161-003	9.49	6/7/11
	R1103161-004	9.31	6/7/11
	R1103161-005	9.40	6/7/11
	R1103161-006	9.39	6/7/11
	R1103161-007	9.46	6/7/11
	R1103161-008	9.46	6/7/11
	R1103161-009	9.36	6/7/11
	R1103161-010	9.50	6/7/11

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
6/3/11	Filter Blank for 6/3/11	7199 218.6RL (218.6LL)	(Water) DrinkingWater	~~6/2~~ 6/3/11	(Yes) No Field	Millex HV RONA88641K	8.13	9.37	CMW 6/3/11 1107	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-001	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/2/11 1215	(Yes) No Field	Millex HV RONA88641K	6.85	9.47	CMW 6/3/11 1108	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-002	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/2/11 1230	(Yes) No Field	Millex HV RONA88641K	4.20	9.36	CMW 6/3/11 1110	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-003	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/2/11 1319	(Yes) No Field	Millex HV RONA88641K	7.06	9.41	CMW 6/3/11 1111	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-004	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/2/11 1335	(Yes) No Field	Millex HV RONA88641K	4.48	9.37	CMW 6/3/11 1113	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-005	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/2/11 1535	(Yes) No Field	Millex HV RONA88641K	6.41	9.44	CMW 6/3/11 1114	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/3/11 0930	R1103105-006	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/2/11 1545	(Yes) No Field	Millex HV RONA88641K	6.85	9.49	CMW 6/3/11 1117	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/7/11	R1103132-001 SAPOTW	7199 (218.6RL) 218.6LL	(Water) DrinkingWater	6/6/11 1200	Yes (No) Field	Millex HV RONA88641K	8.92	9.30	CMW 6/7/11 1115	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/7/11 1225	R1103161-001 MW17S	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/6/11 1225	(Yes) No Field	Millex HV RONA88641K	7.06	9.38	CMW 6/7/11 1116	Buffer 10%H2SO4 10%NaOH*	WC103052F — —

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
6/7/11 1015	R1103161-002 DMW9S	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/6/11 1245	(Yes) No Field	millex HV RONA88641K	6.53	9.33	CMW 6/7/11 1118	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/7/11 1015	R1103161-003 MW27D	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/6/11 1347	(Yes) No Field	millex HV RONA88641K	6.95	9.49	CMW 6/7/11 1121	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/7/11 1015	R1103161-004 MW18I	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/6/11 1355	(Yes) No Field	Millex HV RONA88641K	5.31	9.31	CMW 6/7/11 1123	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/7/11 1015	R1103161-005 MW29I	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/6/11 1527	(Yes) No Field	Millex HV RONA88641K	5.87	9.40	CMW 6/7/11 1125	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/7/11 1015	R1103161-006 MW9I	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/6/11 1540	(Yes) No Field	Millex HV RONA88641K	6.12	9.39	CMW 6/7/11 1126	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/7/11 1015	R1103161-007 MW18S	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/6/11 1605	(Yes) No Field	Millex HV RONA88641K	6.43	9.46	CMW 6/7/11 1129	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/7/11 1015	R1103161-008 MW25S	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/6/11 1656	(Yes) No Field	Millex HV RONA88641K	6.91	9.46	CMW 6/7/11 1130	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/7/11 1015	R1103161-009 MW25I	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/6/11 1705	(Yes) No Field	Millex HV RONA88641K	7.12	9.36	CMW 6/7/11 1132	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/7/11 1015	R1103161-010 DMW9D	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/6/11 1735	(Yes) No Field	Millex HV RONA88641K	5.59	9.50	CMW 6/7/11 1135	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot II
—	Filter Blank for 6/7/11	7199 218.6RL 218.6LL	Water DrinkingWater	—	Yes No Field	Millex HV RONA88641K	8.54	9.32	CMW 6/7/11	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
—	Filter Blank for 6/8/11	7199 218.6RL 218.6LL	Water DrinkingWater	—	Yes No Field	millex HV RONA88641K	5.95	9.46	EW 6/8/11 1038	Buffer 10%H2SO4 10%NaOH*	WC103052 — —
6/8/11 0931	R1103194-003 DMW2A A'd to orange	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 EW 6/8/11 ~~1240~~ 1455	Yes No Field	millex HV RONA88641K	4.49	9.33	EW 6/8/11 1040	Buffer 10%H2SO4 10%NaOH*	WC103052 — —
6/8/11 0931	R1103194-002 DMW2S	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 1300	Yes No Field	millex HV RONA88641K	5.22	9.33	EW 6/8/11 1042	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/8/11 0931	R1103194-001 DMW3D	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 1240	Yes No Field	millex HV RONA88641K	5.27	9.34	EW 6/8/11 1045	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/8/11 0931	R1103194-004 DMW4A A'd to Blue	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 1615	Yes No Field	millex HV RONA88641K	5.75	9.36	EW 6/8/11 1046	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/9/11 —	SW37B	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1323	Yes No Field	millex HV RONA88641K	8.03	9.36	CMW 6/9/11 852	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
↓	SW29C	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1247	Yes No Field	↓	8.83	9.41	CMW 6/9/11 854	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
↓	SW43C	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1212	Yes No Field	↓	8.68	9.36	CMW 6/9/11 855	Buffer 10%H2SO4 10%NaOH*	WC103052F — —

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

00032

0026

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** CWOODS **Analysis Lot:** 249015 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1105454-05	Chromium, Hexavalent, Dissolved	CCV		Water	0.49 µg/L	10 mL	0.490 µg/L	1					6/7/11 11:08:00	N	IV
RQ1105454-08	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 11:17:00	N	IV
RQ1105454-09	Chromium, Hexavalent, Dissolved	MB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 11:17:00	N	IV
RQ1105454-10	Chromium, Hexavalent, Dissolved	LCS		Water	0.20 µg/L	10 mL	0.205 µg/L	1	0.010	0.020	102		6/7/11 11:25:00	N	IV
R1103161-001	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 11:44:00	N	IV
R1103161-002	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 11:53:00	N	IV
R1103161-003	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 12:01:00	N	IV
R1103161-004	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 12:09:00	N	IV
R1103161-005	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 12:17:00	N	IV
R1103161-006	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 12:25:00	N	IV
R1103161-007	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 12:34:00	N	IV
R1103161-008	Chromium, Hexavalent, Dissolved	N/A		Water	-0.01 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 12:42:00	N	IV
R1103161-009	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 12:50:00	N	IV
RQ1105454-04	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.504 µg/L	1					6/7/11 12:58:00	N	IV
RQ1105454-07	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 13:06:00	N	IV
R1103161-010	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 13:14:00	N	IV
RQ1105454-01	Chromium, Hexavalent, Dissolved	MS	R1103161-010	Water	0.20 µg/L	10 mL	0.197 µg/L	1	0.010	0.020	99		6/7/11 13:23:00	N	IV
RQ1105454-02	Chromium, Hexavalent, Dissolved	DMS	R1103161-010	Water	0.19 µg/L	10 mL	0.194 µg/L	1	0.010	0.020	97	2	6/7/11 13:31:00	N	IV
RQ1105454-03	Chromium, Hexavalent, Dissolved	CCV		Water	0.55 µg/L	10 mL	0.553 µg/L	1					6/7/11 14:12:00	N	IV
RQ1105454-06	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/7/11 14:20:00	N	IV

5052

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103161
Project:	MSA Groundwater/112IC03292 Task 02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1103161-MB	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/7/11 11:17	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292 Task 02
Sample Matrix: Water

Service Request: R1103161
Date Collected: 6/6/11
Date Received: 6/7/11
Date Analyzed: 6/ 7/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: DMW9D-060611
Lab Code: R1103161-010

Units: µg/L
Basis: NA

Analytical Method: 218.6

Analyte Name	Sample Result	DMW9D-060611MS Matrix Spike R1103161-010MS Result	Spike Amount	% Rec	DMW9D-060611DMS Duplicate Matrix Spike R1103161-010DMS Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Chromium, Hexavalent, Dissolved	ND	0.197	0.200	99	0.194	0.200	97	90 - 110	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292 Task 02
Sample Matrix: Water

Service Request: R1103161
Date Analyzed: 6/ 7/11

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1103161-LCS Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6	0.205	0.200	102	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

06-07-11 IC#5 218.6LL | 218.6RL

Sequence: 06-07-2011LL
Operator: ROCACQGEN03 Analysts: E Wolfe C Woods Pipets: O'Blue, Lucy

Printed: 6/7/2011 2:52:33 PM

Title:
Datasource: DJZ93HD1_local
Location: IC5\Data Files\Low-Level Chromium (VI)\2011 Low-Level Chrome\06June2011\06-07-2011
Timebase: IC5
#Samples: 27

Created: 2/17/2010 3:24:15 PM by ROCACQGEN03 (Modified, not saved)

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Dil. Factor	Comment
1	STANDARD 1	Standard	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 10:36:06 AM	1.0000	218.6LL/218.6RL
2	STANDARD 2	Standard	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 10:44:17 AM	1.0000	218.6LL/218.6RL
3	STANDARD 3	Standard	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 10:52:28 AM	1.0000	218.6LL/218.6RL
4	STANDARD 4	Standard	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 11:00:40 AM	1.0000	218.6LL/218.6RL
5	ICV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 11:08:51 AM	1.0000	218.6LL/218.6RL
6	ICB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 11:17:01 AM	1.0000	218.6LL/218.6RL
7	LCS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 11:25:13 AM	1.0000	218.6LL/218.6RL
8	R1103161-001	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 11:44:58 AM	1.0000	218.6LL
9	R1103161-002	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 11:53:10 AM	1.0000	218.6LL
10	R1103161-003	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 12:01:21 PM	1.0000	218.6LL
11	R1103161-004	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 12:09:32 PM	1.0000	218.6LL
12	R1103161-005	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 12:17:43 PM	1.0000	218.6LL
13	R1103161-006	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 12:25:54 PM	1.0000	218.6LL
14	R1103161-007	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 12:34:04 PM	1.0000	218.6LL
15	R1103161-008	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 12:42:15 PM	1.0000	218.6LL
16	R1103161-009	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 12:50:26 PM	1.0000	218.6LL
17	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 12:58:37 PM	1.0000	218.6LL/218.6RL
18	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 1:06:48 PM	1.0000	218.6LL/218.6RL
19	R1103161-010	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 1:14:59 PM	1.0000	218.6LL
20	R1103161-010 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 1:23:10 PM	1.0000	218.6LL
21	R1103161-010 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 1:31:21 PM	1.0000	218.6LL
22	FILTER BLANK FOR 6/7/11	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 1:39:31 PM	1.0000	218.6LL
23	R1103132-001	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 1:47:43 PM	500.0000	218.6RL
24	R1103132-001 DUP	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 1:55:54 PM	500.0000	218.6RL
25	R1103132-001 SPK	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 2:04:05 PM	500.0000	218.6RL
26	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 2:12:15 PM	1.0000	218.6LL/218.6RL
27	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060711CLL	Finished	6/7/2011 2:20:26 PM	1.0000	218.6LL/218.6RL

1-Copy R3161

Reviewed & Approved
By:
Date: 6/13/11

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292 Task 02

Service Request: R1103161

Continuing Calibration Verification (CCV) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6

Units: µg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	249015	RQ1105454-05	6/7/11 11:08	0.500	0.490	98	95 - 105
CCV2	249015	RQ1105454-04	6/7/11 12:58	0.500	0.504	101	95 - 105
CCV3	249015	RQ1105454-03	6/7/11 14:12	0.500	0.553	111 *	95 - 105

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292 Task 02

Service Request: R1103161

Continuing Calibration Blank (CCB) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6

Units: µg/L

	Analysis Lot	Lab Code	Date Analyzed	MDL	MRL	Result	Q
CCB1	249015	RQ1105454-08	6/7/11 11:17	0.010	0.020	0.020	U
CCB2	249015	RQ1105454-07	6/7/11 13:06	0.010	0.020	0.020	U
CCB3	249015	RQ1105454-06	6/7/11 14:20	0.010	0.020	0.020	U

Client:	Tetra Tech NUS, Inc.	**Service Request No.:**	R1103210
Project:	MSA Surface Water	**Project Number:**	112IC03292 Task 2
Sample Matrix:	Water	**Date Received:**	6/09/11

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Water samples were collected on 6/08/11 and received at CAS in good condition at a cooler temperature of 2 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested.

Hexavalent Chromium Analysis – 218.6

Twenty-seven water samples were analyzed for CR+6 by EPA method 218.6, low level. Values detected between the MDL and PQL have been flagged with a "J" as estimated.

Note: Due to the volume of samples received and the time of sampling, samples MSA-SW44B-060811, MSA-SW44C-060811, MSA-SW45A-060811, MSA-SW45B-060811, and MSA-SW45C-060811 were analyzed 30 – 67 minutes outside the 24 hour holding time.

All the initial and continuing calibration criteria were met.

The Blank Spike (LCS) recovery was within QC limits.

A Matrix Spike/Matrix Spike duplicate was analyzed on samples MSA-SW39C-060811 and MSA-SW44B-060811. The recoveries and RPD's were within QC limits.

The Laboratory Blank associated with these samples was free of contamination.

No other analytical or QC problems were encountered.

Chain of Custody Record

COLUMBIA ANALYTICAL ~~TestAmerica~~

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Lab Contact:	COC No: 009881
Address: 20251 Century Blvd Ste 200	Telephone: 3012338230	Telephone: 3012338230	Telephone:	1 of 3 COCs
City/State/Zip: Germantown, MD 20874	Email: tony.apanavage@tetratech.com	Analysis Turnaround Time: CALENDAR DAYS / WORKING DAYS (in BUS days)	Analyses	
Phone: 3015283021		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Name: SURFACE WATER SAMPLING MSA	Method of Shipment/Carrier:			
Project Number: 112C05292	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite (C) or Grab (G)	Hex Chrom									Sample Specific Notes / Special Instructions:
MSA-SW37A-060811	6/8/11	1316		X									X				X									
MSA-SW37B-060811		1323											X				X									
MSA-SW37C-060811		1328											X				X									
MSA-SW38A-060811		1222											X				X									
MSA-SW38B-060811		1223											X				X									
MSA-SW38C-060811		1224											X				X									
MSA-SW39A-060811		1245											X				X									
MSA-SW39B-060811		1246											X				X									
MSA-SW39C-060811		1247											X				X									
MSA-SW40A-060811		1229											X				X									

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech	6-8-11/1520		CAS	0745
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

009881

R1103210
Tetra Tech NUS,Inc.
MSA Surface Water

Chain of Custody Record

COLUMBIA ANALYTICAL

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Lab Contact:	COC No: 009882
Address: 20251 Century Blvd Ste 200	Telephone: 3012338230	Telephone: 3012338230	Telephone:	2 of 3 COCs
City/State/Zip: Germantown, MD, 20874	Email: tony.apanavage@tetratech.com	Analysis Turnaround Time (in BUS days)	Analyses	
Phone: 301 528 3021		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Name: SURFACE WATER SAMPLING MSA	Method of Shipment/Carrier:			
Project Number: 112IC03292	Shipping/Tracking No:			
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite = C / Grab = G	Hex chrom									Sample Specific Notes / Special Instructions:
MSA-SW40B-060811	6/8/11	1230		X									X				X									
MSA-SW40C-060811		1231											X				X									
MSA-SW41A-060811		1216											X				X									
MSA-SW41B-060811		1217											X				X									
MSA-SW41C-060811		1218											X				X									
MSA-SW42A-060811	"	1235											X				X									
MSA-SW42B-060811	"	1236											X				X									
MSA-SW42C-060811	"	1237											X				X									
MSA-SW43A-060811	"	1210											X				X									
MSA-SW43B-060811	"	1211		↓									X				X									

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech	6-8-11 / 1520		CAS	0745
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Chain of Custody Record

COLUMBIA ANALYTICAL ~~TestAmerica~~

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact					
Company Name: TetraTech	Client Project Manager: Tony Apanavage	Site Contact: Tony Apanavage	Lab Contact:	COC No: 009883
Address: 20251 Century Blvd Ste 200	Telephone: 301 233 8230	Telephone: 301 233 8230	Telephone:	3 of 3 COCs
City/State/Zip: Germantown, MD, 20874	Email: tony.apanavage@tetratech.com	Analysis Turnaround Time (CALENDAR DAYS or WORKING DAYS)		
Phone: 301 528 3021		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Name: SURFACE WATER SAMPLING MSA	Method of Shipment/Carrier:			
Project Number: 1127FC03292	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Hex chrome									Sample Specific Notes / Special Instructions:
MSA-SW43C-060811	6/8/11	1212		X									X				X									
MSA-SW44A-060811	✓	1259		✓									X				X									
MSA-SW44B-060811	-	1300		✓									X				X									
MSA-SW44C-060811	-	1301											X				X									
MSA-SW45A-060811	-	1253											X				X									
MSA-SW45B-060811	-	1255											X				X									
MSA-SW45C-060811	- ✓	1254		✓									X				X									

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech	6-8-11 / 1520		CAS	0745
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

60660

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
—	Filter Blank for 6/7/11	7199 218.6RL 218.6LL	Water DrinkingWater	—	Yes No Field	Millex HV RONA88641K	8.54	9.32	CMW 6/7/11	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
—	Filter Blank for 6/8/11	7199 218.6RL 218.6LL	Water DrinkingWater	—	Yes No Field	millex HV RONA88641K	5.95	9.46	EW 6/8/11 1038	Buffer 10%H2SO4 10%NaOH*	WC103052 — —
6/8/11 0931	R1103194-003 DMW2A A'd to orange	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 EW 6/8/11 ~~1240~~ 1455	Yes No Field	millex HV RONA88641K	4.49	9.33	EW 6/8/11 1040	Buffer 10%H2SO4 10%NaOH*	WC103052 — —
6/8/11 0931	R1103194-002 DMW2S	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 1300	Yes No Field	millex HV RONA88641K	5.22	9.33	EW 6/8/11 1042	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/8/11 0931	R1103194-001 DMW3D	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 1240	Yes No Field	millex HV RONA88641K	5.27	9.34	EW 6/8/11 1045	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/8/11 0931	R1103194-004 DMW4A A'd to Orange	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 1615	Yes No Field	millex HV RONA88641K	5.75	9.36	EW 6/8/11 1046	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/9/11 0745	R1103210-002 SW37B	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1323	Yes No Field	millex HV RONA88641K	8.03	9.36	CMW 6/9/11 852	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
	R1103210-009 SW39C	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1247	Yes No Field		8.83	9.41	CMW 6/9/11 854	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
	R1103210-021 SW43C	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1212	Yes No Field		8.68	9.36	CMW 6/9/11 855	Buffer 10%H2SO4 10%NaOH*	WC103052F — —

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

0026

0026

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lo
6/9/11 0745	R1103210-018 SW42C	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1237	(Yes) No Field	Millex HV RONA88641K	8.76	9.42	6/9/11 855	Buffer	WC103D5
										10%H2SO4	—
										10%NaOH*	—
	R1103210-003 SW37C	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1328	(Yes) No Field		8.80	9.45	6/9/11 857	Buffer	WC103D
										10%H2SO4	—
										10%NaOH*	—
	R1103210-020 SW43B	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1211	(Yes) No Field		8.73	9.31	6/9/11 858	Buffer	WC103C
										10%H2SO4	—
										10%NaOH*	—
	R1103210-019 SW43A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1210	(Yes) No Field		8.71	9.46	6/9/11 858	Buffer	WC103D8
										10%H2SO4	—
										10%NaOH*	—
	R1103210-027 SW45C	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1254	(Yes) No Field		8.66	9.39	6/9/11 859	Buffer	WC103D5
										10%H2SO4	—
										10%NaOH*	—
	R1103210-026 SW45B	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1255	(Yes) No Field		8.68	9.46	6/9/11 903	Buffer	WC103D52
										10%H2SO4	—
										10%NaOH*	—
	R1103210-025 SW45A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1253	(Yes) No Field		8.66	9.36	6/9/11 904	Buffer	WC103D52
										10%H2SO4	—
										10%NaOH*	—
	R1103210-013 SW41A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1216	(Yes) No Field		8.71	9.48	6/9/11 905	Buffer	WC103D57
										10%H2SO4	—
										10%NaOH*	—
	R1103210-022 SW44A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1259	(Yes) No Field		8.72	9.35	6/9/11 906	Buffer	WC103D5
										10%H2SO4	—
										10%NaOH*	—

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

0059

002

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
6/9/11 0745	R1103210-010 SW40A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1229	(Yes) No Field	Millex HV R0NA88641K	8.69	9.36	6/9/11 907	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-014 SW41B	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1217	(Yes) No Field		8.72	9.44	6/9/11 908	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-012 SW40C	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1231	(Yes) No Field		8.73	9.36	6/9/11 909	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-008 SW39B	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1246	(Yes) No Field		8.22	9.39	6/9/11 910	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-006 SW38C	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1224	(Yes) No Field		8.80	9.48	6/9/11 911	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-016 SW42A	7199 218.6RL 218.6LL	(Water) DrinkingWater	6/8/11 1235	(Yes) No Field		8.80	9.45	6/9/11 912	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-024 SW44C	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1301	(Yes) No Field		8.77	9.36	6/9/11 913	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-017 SW42B	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1230	(Yes) No Field		8.83	9.39	6/9/11 914	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-001 SW37A	7199 218.6RL 218.6LL	(Water) DrinkingWater	6/8/11 1316	(Yes) No Field		8.54	9.49	6/9/11 916	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
6/9/11 0745	R1103210-011 SW40B	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1230	(Yes) No Field	Millex HV RONA88641K	8.82	9.35	CW 6/9/11 916	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-023 SW44B	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1300	(Yes) No Field		8.75	9.36	CW 6/9/11 917	Buffer	WC103052
										10%H2SO4	—
										10%NaOH*	—
	R1103210-015 SW41C	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1218	(Yes) No Field		8.71	9.49	CW 6/9/11 919	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-005 SW38B	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1223	(Yes) No Field		8.70	9.36	CW 6/9/11 920	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-007 SW39A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1245	(Yes) No Field		8.10	9.39	CW 6/9/11 922	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-004 SW38A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1222	(Yes) No Field		8.69	9.45	CW 6/9/11 923	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
—	Filter blank for 6/9/11	7199 218.6RL (218.6LL)	(Water) DrinkingWater	—	(Yes) No Field		8.55	9.36	CW 6/9/11 924	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/9/11 0945	R1103216-003 MW59	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1205	(Yes) No Field	Millex HV RONA88641K	4.32	9.45	CW 6/9/11 1037	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103216-002 MW51	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1345	Yes No Field		4.55	9.37	CW 6/9/11 1039	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

* Regular Level Cr+6 only

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
6/9/11 0945	R1103216-004 MW3I	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1501	(Yes) No Field	Millex HV R0NA88641K	5.70	9.45	CMW 6/9/11 1040	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103216-005 MW31D	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1545	(Yes) No Field		7.33	9.41	CMW 6/9/11 1042	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103216-001 MW30D	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1225	(Yes) No Field		6.36	9.38	CMW 6/9/11 1043	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/9/11 1023	R1103226-006 SPOL-018	7199 218.6RL (218.6LL)	Water (DrinkingWater)	6/8/11 1537	(Yes) No Field	Millex HV R0NA88641K	5.46	9.37	CMW 6/9/11 1451	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103226-005 CSWD PARKWATER	7199 218.6RL (218.6LL)	Water (DrinkingWater)	6/8/11 1521	(Yes) No Field		7.55	9.44	CMW 6/9/11 1453	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/10/11 —	Filter Blank for 6/10/11	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/9/11 —	(Yes) No Field	Millex HV R0NA88641K	8.31	9.45	CMW 6/10/11 1133	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	MW3	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/9/11 1255	(Yes) No Field		6.54	9.33	CMW 6/10/11 1134	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	MW34S	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/9/11 1305	(Yes) No Field		5.66	9.43	CMW 6/10/11 1135	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	DMW11I	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/9/11 1530	(Yes) No Field		5.71	9.32	CMW 6/10/11 1136	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

* Regular Level Cr+6 only

CAS ASP/CLP Batching Form/Login Sheet

Client Proj #: 112IC03292	Batch Complete: Yes	Date Revised:
Submission: R1103210	Diskette Requested: No	Date Due: 6/23/11
Client: Tetra Tech NUS, Inc.	Date: 6/13/11	Protocol: MCAWW
Client Rep: MPERRY	Custody Seal: Present/Absent:	Shipping No.:
Project: MSA Surface Water	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1103210-001	MSA-SW37A-060811	Water	218.6	6/8/11	6/9/11			
R1103210-002	MSA-SW37B-060811	Water	218.6	6/8/11	6/9/11			
R1103210-003	MSA-SW37C-060811	Water	218.6	6/8/11	6/9/11			
R1103210-004	MSA-SW38A-060811	Water	218.6	6/8/11	6/9/11			
R1103210-005	MSA-SW38B-060811	Water	218.6	6/8/11	6/9/11			
R1103210-006	MSA-SW38C-060811	Water	218.6	6/8/11	6/9/11			
R1103210-007	MSA-SW39A-060811	Water	218.6	6/8/11	6/9/11			
R1103210-008	MSA-SW39B-060811	Water	218.6	6/8/11	6/9/11			
R1103210-009	MSA-SW39C-060811	Water	218.6	6/8/11	6/9/11			
R1103210-010	MSA-SW40A-060811	Water	218.6	6/8/11	6/9/11			
R1103210-011	MSA-SW40B-060811	Water	218.6	6/8/11	6/9/11			
R1103210-012	MSA-SW40C-060811	Water	218.6	6/8/11	6/9/11			
R1103210-013	MSA-SW41A-060811	Water	218.6	6/8/11	6/9/11			
R1103210-014	MSA-SW41B-060811	Water	218.6	6/8/11	6/9/11			
R1103210-015	MSA-SW41C-060811	Water	218.6	6/8/11	6/9/11			
R1103210-016	MSA-SW42A-060811	Water	218.6	6/8/11	6/9/11			
R1103210-017	MSA-SW42B-060811	Water	218.6	6/8/11	6/9/11			
R1103210-018	MSA-SW42C-060811	Water	218.6	6/8/11	6/9/11			
R1103210-019	MSA-SW43A-060811	Water	218.6	6/8/11	6/9/11			
R1103210-020	MSA-SW43B-060811	Water	218.6	6/8/11	6/9/11			
R1103210-021	MSA-SW43C-060811	Water	218.6	6/8/11	6/9/11			
R1103210-022	MSA-SW44A-060811	Water	218.6	6/8/11	6/9/11			
R1103210-023	MSA-SW44B-060811	Water	218.6	6/8/11	6/9/11			
R1103210-024	MSA-SW44C-060811	Water	218.6	6/8/11	6/9/11			
R1103210-025	MSA-SW45A-060811	Water	218.6	6/8/11	6/9/11			
R1103210-026	MSA-SW45B-060811	Water	218.6	6/8/11	6/9/11			
R1103210-027	MSA-SW45C-060811	Water	218.6	6/8/11	6/9/11			

Folder Comments:

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** EWOLFE **Analysis Lot:** 249483 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1105590-01	Chromium, Hexavalent, Dissolved	CCV		Water	0.49 µg/L	10 mL	0.495 µg/L	1					6/9/11 09:34:00	N	IV
RQ1105590-07	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 09:42:00	N	IV
RQ1105590-16	Chromium, Hexavalent, Dissolved	MB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 09:42:00	N	IV
RQ1105590-13	Chromium, Hexavalent, Dissolved	LCS		Water	0.20 µg/L	10 mL	0.203 µg/L	1	0.010	0.020	102		6/9/11 09:50:00	N	IV
R1103210-019	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.050 µg/L	1	0.010	0.020			6/9/11 09:58:00	N	IV
R1103210-020	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.051 µg/L	1	0.010	0.020			6/9/11 10:07:00	N	IV
R1103210-021	Chromium, Hexavalent, Dissolved	N/A		Water	0.06 µg/L	10 mL	0.056 µg/L	1	0.010	0.020			6/9/11 10:15:00	N	IV
R1103210-013	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.055 µg/L	1	0.010	0.020			6/9/11 10:23:00	N	IV
R1103210-014	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.054 µg/L	1	0.010	0.020			6/9/11 10:30:00	N	IV
R1103210-015	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.051 µg/L	1	0.010	0.020			6/9/11 10:38:00	N	IV
R1103210-004	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.054 µg/L	1	0.010	0.020			6/9/11 10:46:00	N	IV
R1103210-005	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.055 µg/L	1	0.010	0.020			6/9/11 10:54:00	N	IV
R1103210-006	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.052 µg/L	1	0.010	0.020			6/9/11 11:02:00	N	IV
RQ1105590-02	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.499 µg/L	1					6/9/11 11:09:00	N	IV
RQ1105590-08	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 11:17:00	N	IV
R1103210-010	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.046 µg/L	1	0.010	0.020			6/9/11 11:25:00	N	IV
R1103210-011	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.053 µg/L	1	0.010	0.020			6/9/11 11:33:00	N	IV
R1103210-012	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 ~~0.06~~ µg/L DM 6/13/11	10 mL	0.051 ~~0.057~~ µg/L DM 6/13/11	1	0.010	0.020			6/9/11 11:41:00	N	IV
R1103210-016	Chromium, Hexavalent, Dissolved	N/A		Water	0.06 µg/L	10 mL	0.058 µg/L	1	0.010	0.020			6/9/11 11:48:00	N	IV
R1103210-017	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.052 µg/L	1	0.010	0.020			6/9/11 11:56:00	N	IV
R1103210-018	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.054 µg/L	1	0.010	0.020			6/9/11 12:04:00	N	IV
R1103210-007	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.046 µg/L	1	0.010	0.020			6/9/11 12:12:00	N	IV
R1103210-008	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.046 µg/L	1	0.010	0.020			6/9/11 12:19:00	N	IV
R1103210-009	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.047 µg/L	1	0.010	0.020			6/9/11 12:27:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** EWOLFE **Analysis Lot:** 249483 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1103210-022	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.052 µg/L	1	0.010	0.020			6/9/11 12:35:00	N	IV
RQ1105590-03	Chromium, Hexavalent, Dissolved	CCV		Water	0.49 µg/L	10 mL	0.494 µg/L	1					6/9/11 12:43:00	N	IV
RQ1105590-09	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 12:51:00	N	IV
RQ1105590-14	Chromium, Hexavalent, Dissolved	LCS		Water	0.20 µg/L	10 mL	0.198 µg/L	1	0.010	0.020	99		6/9/11 12:58:00	N	IV
R1103210-001	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.053 µg/L	1	0.010	0.020			6/9/11 13:06:00	N	IV
R1103210-002	Chromium, Hexavalent, Dissolved	N/A		Water	0.06 µg/L	10 mL	0.062 µg/L	1	0.010	0.020			6/9/11 13:14:00	N	IV
R1103210-003	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.048 µg/L	1	0.010	0.020			6/9/11 13:22:00	N	IV
R1103210-023	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.049 µg/L	1	0.010	0.020			6/9/11 13:30:00	N	IV
R1103210-024	Chromium, Hexavalent, Dissolved	N/A		Water	0.06 µg/L	10 mL	0.059 µg/L	1	0.010	0.020			6/9/11 13:37:00	N	IV
R1103210-025	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.050 µg/L	1	0.010	0.020			6/9/11 13:45:00	N	IV
R1103210-026	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.047 µg/L	1	0.010	0.020			6/9/11 13:53:00	N	IV
R1103210-027	Chromium, Hexavalent, Dissolved	N/A		Water	0.04 µg/L	10 mL	0.044 µg/L	1	0.010	0.020			6/9/11 14:01:00	N	IV
R1103216-003	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 14:08:00	N	IV
RQ1105590-04	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.499 µg/L	1					6/9/11 14:16:00	N	IV
RQ1105590-10	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 14:24:00	N	IV
R1103216-002	Chromium, Hexavalent, Dissolved	N/A		Water	0.01 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 14:32:00	N	IV
R1103216-004	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 14:40:00	N	IV
R1103216-001	Chromium, Hexavalent, Dissolved	N/A		Water	0.02 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 14:47:00	N	IV
R1103216-005	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 14:55:00	N	IV
RQ1105590-17	Chromium, Hexavalent, Dissolved	MS	R1103210-009	Water	0.24 µg/L	10 mL	0.245 µg/L	1	0.010	0.020	99		6/9/11 15:03:00	N	IV
RQ1105590-18	Chromium, Hexavalent, Dissolved	DMS	R1103210-009	Water	0.25 µg/L	10 mL	0.251 µg/L	1	0.010	0.020	102	2	6/9/11 15:11:00	N	IV
RQ1105590-19	Chromium, Hexavalent, Dissolved	MS	R1103210-023	Water	0.25 µg/L	10 mL	0.249 µg/L	1	0.010	0.020	100		6/9/11 15:19:00	N	IV
RQ1105590-20	Chromium, Hexavalent, Dissolved	DMS	R1103210-023	Water	0.25 µg/L	10 mL	0.248 µg/L	1	0.010	0.020	100	<1	6/9/11 15:26:00	N	IV
RQ1105590-21	Chromium, Hexavalent, Dissolved	MS	R1103210-027	Water	~~0.24~~ 0.27 µg/L DM 6/13/11	10 mL	~~0.273~~ 0.243 µg/L DM 6/13/11	1	0.010	0.020	~~114*~~ 99 DM 6/13/11		6/9/11 15:34:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** EWOLFE **Analysis Lot:** 249483 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1105590-22	Chromium, Hexavalent, Dissolved	DMS	R1103210-027	Water	0.25 µg/L	10 mL	0.252 µg/L	1	0.010	0.020	104	8	6/9/11 15:42:00	N	IV
RQ1105590-05	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.502 µg/L	1					6/9/11 15:50:00	N	IV
RQ1105590-11	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 15:57:00	N	IV
RQ1105590-15	Chromium, Hexavalent, Dissolved	LCS		Water	0.20 µg/L	10 mL	0.204 µg/L	1	0.010	0.020	102		6/9/11 16:05:00	N	IV
RQ1105590-23	Chromium, Hexavalent, Dissolved	MS	R1103216-005	Water	0.21 µg/L	10 mL	0.206 µg/L	1	1.1	1.1	103		6/9/11 16:13:00	N	IV
RQ1105590-24	Chromium, Hexavalent, Dissolved	DMS	R1103216-005	Water	0.20 µg/L	10 mL	0.205 µg/L	1	1.1	1.1	102	<1	6/9/11 16:21:00	N	IV
RQ1105590-06	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.504 µg/L	1					6/9/11 17:08:00	N	IV
RQ1105590-12	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 17:15:00	N	IV

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# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103210
Project:	MSA Surface Water/112IC03292	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1103210-MB	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/9/11 09:42	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC03292
Sample Matrix: Water

Service Request: R1103210
Date Collected: 6/8/11
Date Received: 6/9/11
Date Analyzed: 6/ 9/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MSA-SW39C-060811
Lab Code: R1103210-009

Units: µg/L
Basis: NA

Analytical Method: 218.6

		MSA-SW39C-060811MS Matrix Spike R1103210-009MS1			MSA-SW39C-060811DMS Duplicate Matrix Spike R1103210-009DMS1					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chromium, Hexavalent, Dissolved	0.047	0.245	0.200	99	0.251	0.200	102	90 - 110	2	20

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC03292
Sample Matrix: Water

Service Request: R1103210
Date Collected: 6/8/11
Date Received: 6/9/11
Date Analyzed: 6/ 9/11

Matrix Spike Summary
General Chemistry Parameters

Sample Name: MSA-SW44B-060811
Lab Code: R1103210-023

Units: µg/L
Basis: NA

Analytical Method: 218.6

		MSA-SW44B-060811MS Matrix Spike R1103210-023MS2			MSA-SW44B-060811DMS Duplicate Matrix Spike R1103210-023DMS2					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Chromium, Hexavalent, Dissolved	0.049	0.249	0.200	100	0.248	0.200	100	90 - 110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC03292
Sample Matrix: Water

Service Request: R1103210
Date Analyzed: 6/ 9/11

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1103210-LCS1 Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6	0.203	0.200	102	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC03292
Sample Matrix: Water

Service Request: R1103210
Date Analyzed: 6/ 9/11

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1103210-LCS2 Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6	0.198	0.200	99	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC03292
Sample Matrix: Water

Service Request: R1103210
Date Analyzed: 6/ 9/11

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1103210-LCS3 Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6	0.204	0.200	102	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Tetra Tech NUS, Inc. **Service Request:** R1103210
Project: MSA Surface Water/112IC03292

Continuing Calibration Verification (CCV) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6 **Units:** µg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	249483	RQ1105590-01	6/9/11 09:34	0.500	0.495	99	95 - 105
CCV2	249483	RQ1105590-02	6/9/11 11:09	0.500	0.499	100	95 - 105
CCV3	249483	RQ1105590-03	6/9/11 12:43	0.500	0.494	99	95 - 105
CCV4	249483	RQ1105590-04	6/9/11 14:16	0.500	0.499	100	95 - 105
CCV5	249483	RQ1105590-05	6/9/11 15:50	0.500	0.502	100	95 - 105
CCV6	249483	RQ1105590-06	6/9/11 17:08	0.500	0.504	101	95 - 105

Client: Tetra Tech NUS, Inc.
Project: MSA Surface Water/112IC03292

Service Request: R1103210

Continuing Calibration Blank (CCB) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6

Units: µg/L

	Analysis Lot	Lab Code	Date Analyzed	MDL	MRL	Result	Q
CCB1	249483	RQ1105590-07	6/9/11 09:42	0.010	0.020	0.020	U
CCB2	249483	RQ1105590-08	6/9/11 11:17	0.010	0.020	0.020	U
CCB3	249483	RQ1105590-09	6/9/11 12:51	0.010	0.020	0.020	U
CCB4	249483	RQ1105590-10	6/9/11 14:24	0.010	0.020	0.020	U
CCB5	249483	RQ1105590-11	6/9/11 15:57	0.010	0.020	0.020	U
CCB6	249483	RQ1105590-12	6/9/11 17:15	0.010	0.020	0.020	U

6/9/11 218.6LL ICS#5 Analysts: C. Woods & Walfe Pipet: Ol' Blue

Sequence: 06-09-2011LL
Operator: ROCACQGEN03

Printed: 6/10/2011 10:51:59 AM

Title:
Datasource: DJZ93HD1_local
Location: IC5\Data Files\Low-Level Chromium (VI)\2011 Low-Level Chrome\06June2011\06-09-2011
Timebase: IC5
#Samples: 64

Created: 2/17/2010 3:24:15 PM by ROCACQGEN03
Last Update: 6/10/2011 10:49:57 AM by ROCACQGEN03

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Dil. Factor	Comment
1	STANDARD 1	Standard	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:01:42 AM	1.0000	218.6LL/218.6RL
2	STANDARD 2	Standard	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:09:53 AM	1.0000	218.6LL/218.6RL
3	STANDARD 3	Standard	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:18:05 AM	1.0000	218.6LL/218.6RL
4	STANDARD 4	Standard	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:26:16 AM	1.0000	218.6LL/218.6RL
5	ICV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:34:27 AM	1.0000	218.6LL/218.6RL
6	ICB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:42:37 AM	1.0000	218.6LL/218.6RL
7	LCS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:50:48 AM	1.0000	218.6LL/218.6RL
8	R1103210-019	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:58:59 AM	1.0000	218.6LL
9	R1103210-020	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:07:10 AM	1.0000	218.6LL
10	R1103210-021	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:15:21 AM	1.0000	218.6LL
11	R1103210-013	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:23:09 AM	1.0000	218.6LL
12	R1103210-014	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:30:56 AM	1.0000	218.6LL
13	R1103210-015	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:38:43 AM	1.0000	218.6LL
14	R1103210-004	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:46:31 AM	1.0000	218.6LL
15	R1103210-005	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:54:18 AM	1.0000	218.6LL
16	R1103210-006	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:02:05 AM	1.0000	218.6LL
17	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:09:52 AM	1.0000	218.6LL/218.6RL
18	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:17:39 AM	1.0000	218.6LL/218.6RL
19	R1103210-010	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:25:26 AM	1.0000	218.6LL
20	R1103210-011	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:33:14 AM	1.0000	218.6LL
21	R1103210-012	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:41:01 AM	1.0000	218.6LL
22	R1103210-016	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:48:48 AM	1.0000	218.6LL
23	R1103210-017	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:56:34 AM	1.0000	218.6LL
24	R1103210-018	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:04:22 PM	1.0000	218.6LL
25	R1103210-007	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:12:09 PM	1.0000	218.6LL
26	R1103210-008	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:19:56 PM	1.0000	218.6LL
27	R1103210-009	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:27:43 PM	1.0000	218.6LL

6655

2-Copies R-3210 R-3216

Reviewed & Approved
By:
Date: 6/13/11

Title:
Datasource: DJZ93HD1_local
Location: IC5\Data Files\Low-Level Chromium (VI)\2011 Low-Level Chrome\06June2011\06-09-2011
Timebase: IC5
#Samples: 64

Created: 2/17/2010 3:24:15 PM by ROCACQGEN03
Last Update: 6/10/2011 10:49:57 AM by ROCACQGEN03

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Dil. Factor	Comment
28	R1103210-022	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:35:30 PM	1.0000	218.6LL
29	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:43:17 PM	1.0000	218.6LL/218.6RL
30	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:51:05 PM	1.0000	218.6LL/218.6RL
31	LCS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:58:52 PM	1.0000	218.6LL/218.6RL
32	R1103210-001	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:06:39 PM	1.0000	218.6LL
33	R1103210-002	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:14:26 PM	1.0000	218.6LL
34	R1103210-003	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:22:14 PM	1.0000	218.6LL
35	R1103210-023	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:30:01 PM	1.0000	218.6LL
36	R1103210-024	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:37:48 PM	1.0000	218.6LL
37	R1103210-025	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:45:35 PM	1.0000	218.6LL
38	R1103210-026	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:53:23 PM	1.0000	218.6LL
39	R1103210-027	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:01:09 PM	1.0000	218.6LL
40	R1103216-003	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:08:57 PM	1.0000	218.6LL
41	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:16:44 PM	1.0000	218.6LL/218.6RL
42	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:24:31 PM	1.0000	218.6LL/218.6RL
43	R1103216-002	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:32:18 PM	1.0000	218.6LL
44	R1103216-004	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:40:05 PM	1.0000	218.6LL
45	R1103216-001	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:47:52 PM	1.0000	218.6LL
46	R1103216-005	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:55:39 PM	1.0000	218.6LL
47	R1103210-009 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:03:26 PM	1.0000	218.6LL
48	R1103210-009 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:11:14 PM	1.0000	218.6LL
49	R1103210-023 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:19:00 PM	1.0000	218.6LL
50	R1103210-023 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:26:48 PM	1.0000	218.6LL
51	R1103210-027 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:34:35 PM	1.0000	218.6LL
52	R1103210-027 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:42:22 PM	1.0000	218.6LL
53	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:50:09 PM	1.0000	218.6LL/218.6RL
54	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:57:56 PM	1.0000	218.6LL/218.6RL

Sequence: 06-09-2011LL
Operator: ROCACQGEN03

Title:
Datasource: DJZ93HD1_local
Location: IC5\Data Files\Low-Level Chromium (VI)\2011 Low-Level Chrome\06June2011\06-09-2011
Timebase: IC5
#Samples: 64

Created: 2/17/2010 3:24:15 PM by ROCACQGEN03
Last Update: 6/10/2011 10:49:57 AM by ROCACQGEN03

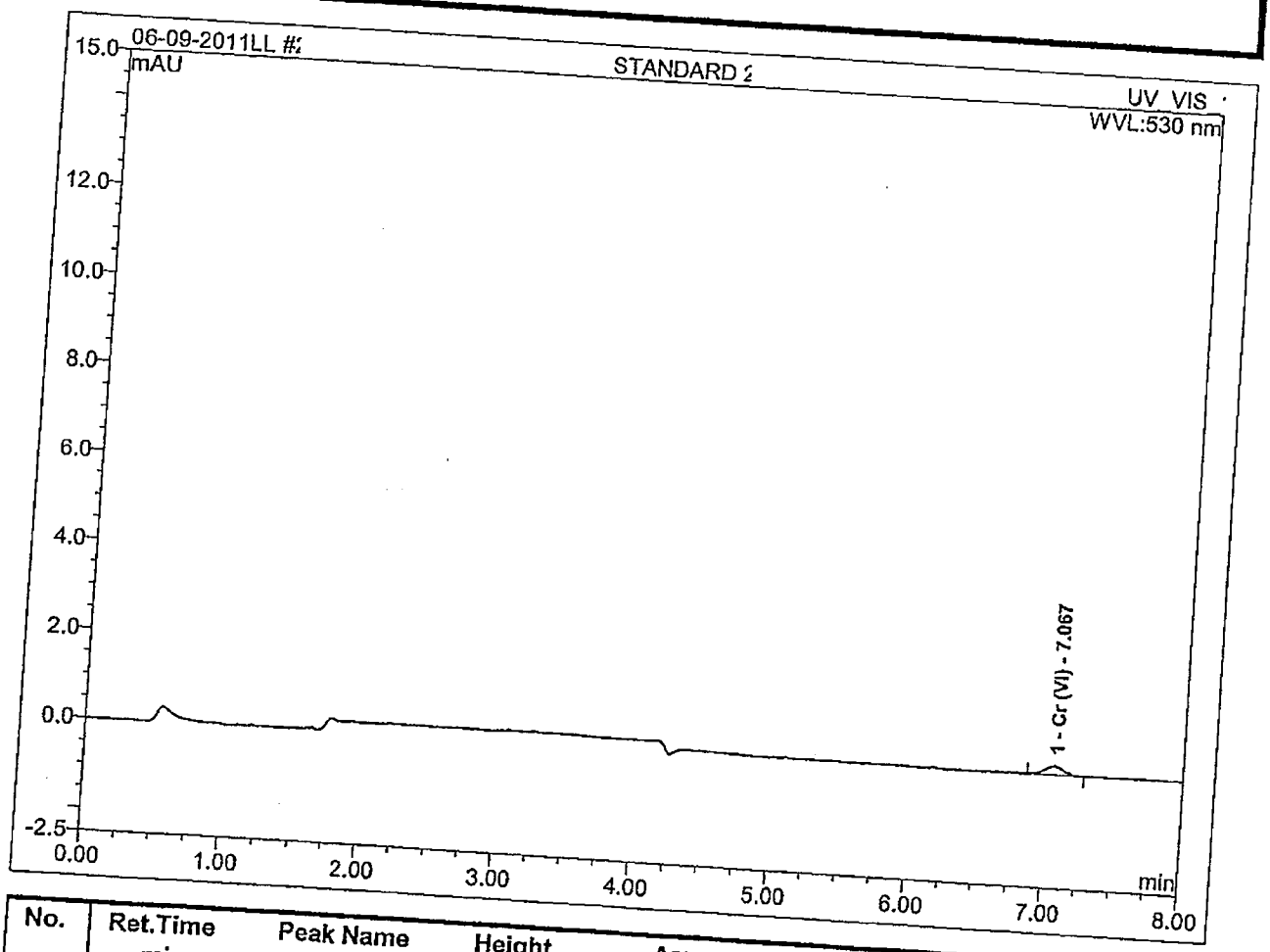
No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Dil. Factor	Comment
55	LCS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:05:43 PM	1.0000	218.6LL/218.6RL
56	R1103216-005 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:13:30 PM	1.0000	218.6LL
57	R1103216-005 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:21:17 PM	1.0000	218.6LL
58	FILTER BLANK FOR 6/9/11	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:29:04 PM	1.0000	218.6LL
59	R1103226-006	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:36:52 PM	1.0000	218.6LL - DW
60	R1103226-005	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:44:39 PM	1.0000	218.6LL - DW
61	R1103226-005 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:52:26 PM	1.0000	218.6LL - DW
62	R1103226-005 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 5:00:13 PM	1.0000	218.6LL - DW
63	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 5:08:00 PM	1.0000	218.6LL/218.6RL
64	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 5:15:47 PM	1.0000	218.6LL/218.6RL

No.	Sample ID:	Quantification Method	Time	Amount ppb Cr (VI) UV_VIS_1	Area mAU*min Cr (VI) UV_VIS_1
1	STANDARD 1	5-060911CLL	06.09.11 09:01	0.0000	n.a.
2	STANDARD 2	5-060911CLL	06.09.11 09:09	0.0200	0.033
3	STANDARD 3	5-060911CLL	06.09.11 09:18	0.2000	0.261
4	STANDARD 4	5-060911CLL	06.09.11 09:26	1.0000	1.260

2 STANDARD 2

218.6LL/218.6RL

Sample Name:	STANDARD 2		
Vial Number:	3	*Injection Volume:*	1500.0
Sample Type:	standard	*Channel:*	UV_VIS_1
Control Program:	Fast Hexavalent Chromium LL	*Dilution Factor:*	1
Quantif. Method:	5-060911CLL	*Sample Weight:*	1.0000
Recording Time:	6/9/2011 9:09	*Sample Amount:*	1.0000



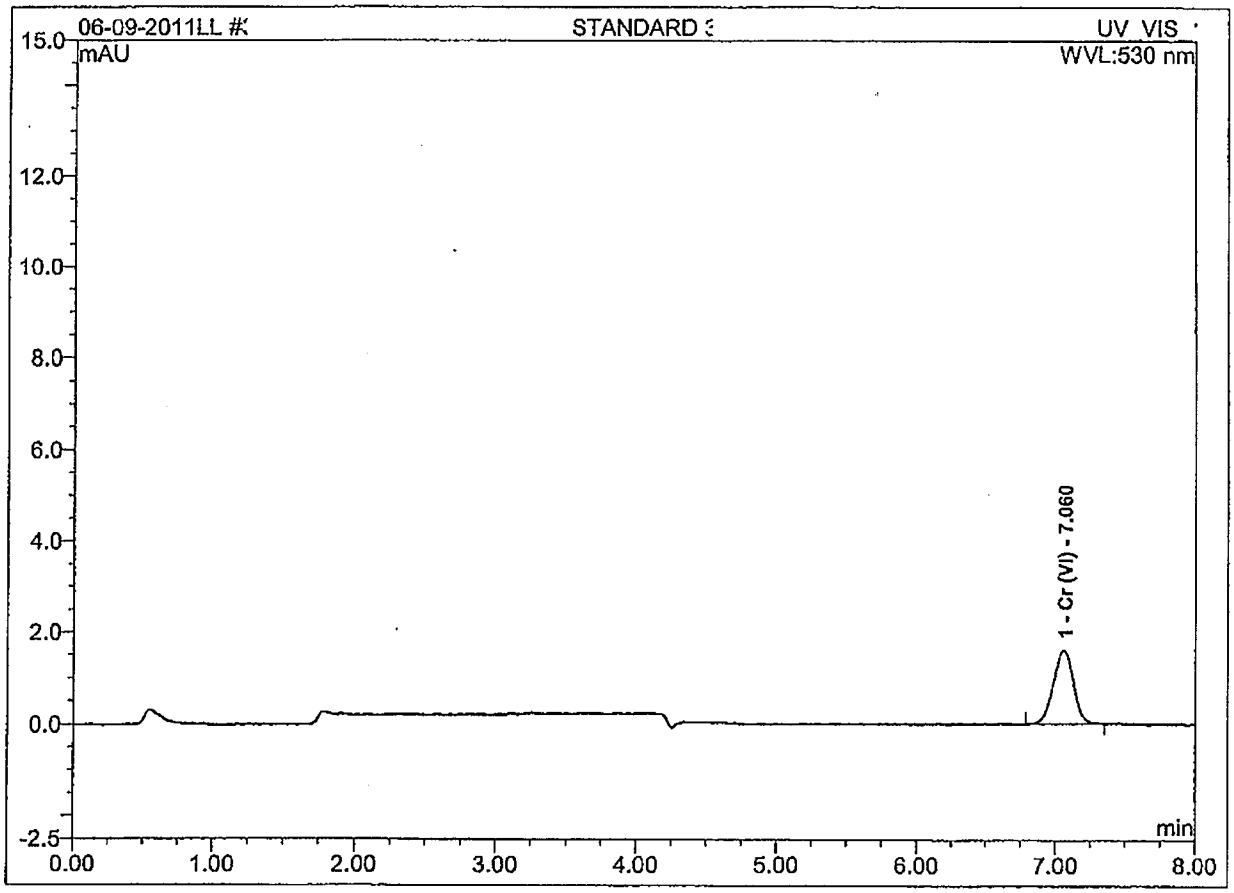
No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount ppb	Type
1	7.067	Cr (VI)	0.200	0.033	100.00	0.01864	BMB
Total:			0.200	0.033	100.00	0.019	

ok
EW
6/10/11

3 STANDARD 3

218.6LL/218.6RL

Sample Name:	**STANDARD 3**	*Injection Volume:*	**1500.0**
Vial Number:	**4**	*Channel:*	**UV_VIS_1**
Sample Type:	**standard**	*Dilution Factor:*	**1**
Control Program:	**Fast Hexavalent Chromium LL**	*Sample Weight:*	**1.0000**
Quantif. Method:	**5-060911CLL**	*Sample Amount:*	**1.0000**
Recording Time:	**6/9/2011 9:18**		



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount ppb	Type
1	7.060	Cr (VI)	1.590	0.261	100.00	0.20166	BMB
Total:			1.590	0.261	100.00	0.202	

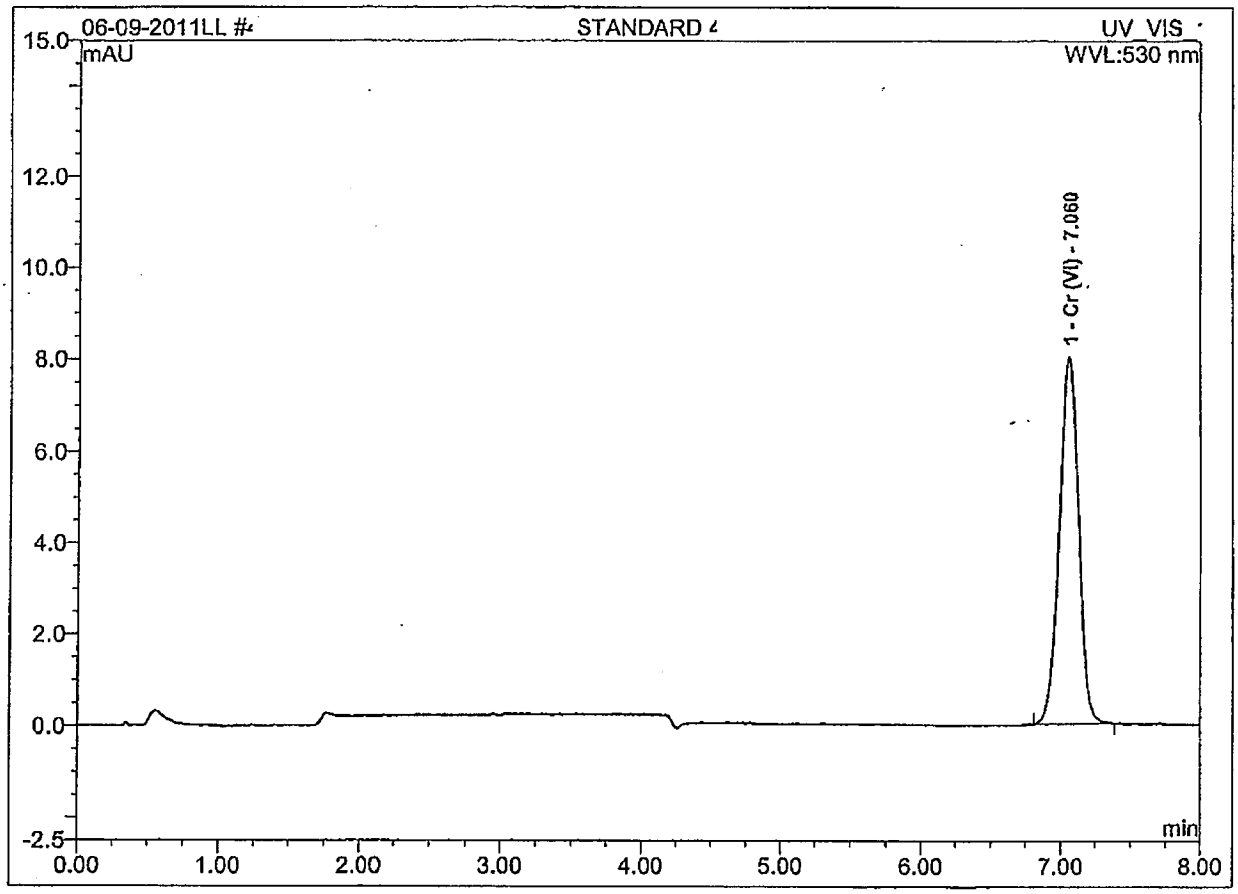
ok
EW
6/10/11

00148

4 STANDARD 4

218.6LL/218.6RL

Sample Name:	**STANDARD 4**	*Injection Volume:*	**1500.0**
Vial Number:	**6**	*Channel:*	**UV_VIS_1**
Sample Type:	**standard**	*Dilution Factor:*	**1**
Control Program:	**Fast Hexavalent Chromium LL**	*Sample Weight:*	**1.0000**
Quantif. Method:	**5-060911CLL**	*Sample Amount:*	**1.0000**
Recording Time:	**6/9/2011 9:26**		



No.	Ret.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount ppb	Type
1	7.060	Cr (VI)	7.987	1.260	100.00	0.99969	BMB
Total:			7.987	1.260	100.00	1.000	

ok
aw
6/10/11

INITIAL CALIBRATION CHECK FROM 6/9/11 FOR Hex Cr

X-VALUE	Y-VALUE
0	0
0.019	0.033
0.202	0.261
1	1.26

CORREL	SLOPE
0.999999726	**1.251099743**

Y-INTERC
0.008802405

0.062503086

0.087

RESULT VERIFICATION FOR SAMPLE MSA-SW37B-060811

Client:	Tetra Tech NUS, Inc.	**Service Request No.:**	R1103216
Project:	MSA Groundwater	**Project Number:**	112IC03292 Task 2
Sample Matrix:	Water	**Date Received:**	6/09/11

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

Sample Receipt

Water samples were collected on 6/08/11 and received at CAS in good condition at a cooler temperature of 1 °C as noted on the cooler receipt and preservation check form. The samples were stored in a refrigerator at 1 - 6 °C upon receipt at the laboratory. See the CAS CLP Batching sheets for a cross-reference between Client ID and CAS Job # and analyses requested.

Hexavalent Chromium Analysis – 218.6

Five water samples were analyzed for CR+6 by EPA method 218.6, low level. Values detected between the MDL and PQL have been flagged with a "J" as estimated.

Note: Due to the volume of samples received and the time of sampling, samples MW30D-060811, DMW5I-060811, and ~~MSA-GW45C-060811~~ DMW5S-060811 were analyzed 1 – 2 hours outside the 24 hour holding time.

All the initial and continuing calibration criteria were met.

The Blank Spike (LCS) recovery was within QC limits.

The Laboratory Blank associated with these samples was free of contamination.

No other analytical or QC problems were encountered.

MA
6/30/11

Columbia Analytical Services™ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 1

Project Name: MSA Groundwater Sampling	Project Number: 112IC03282-02
Project Manager: Tony Hentschke	Report CC:
Company/Address: Tetra Tech NUS 20251 Century Blvd STE 200 Germantown MD	
Phone #: (301) 528-3021	E-mail:
Sampler's Signature:	Sampler's Printed Name: Walt Payson

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: ✓ (Hex Chrome)

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	Hex Chrome	REMARKS/ ALTERNATE DESCRIPTION
MW30D-060811		6-8-11	1225	Water	1	X	
DMW5I-060811			1345		1	X	
DMW5S-060811			1205		1	X	
DMW3I-060811			1501		1	X	
MW31D-060811		↓	1545	↓	1	X	

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP
GC/MS SVOA's ☐ 8270 ☐ 625
GC VOA's ☐ 8021 ☐ 601/602
PESTICIDES ☐ 8081 ☐ 608
PCB's ☐ 8082 ☐ 608
METALS, TOTAL (List in comments below)
METALS, DISSOLVED (List in comments below)

SPECIAL INSTRUCTIONS/COMMENTS
Metals 24 TAT

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED:

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
1 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
____ Standard

REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____ Yes ____ N

INVOICE INFORMATION
PO #:
BILL TO:

R1103216
Tetra Tech NUS,Inc.
MSA Groundwater

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY:
Signature:	Signature: Tony Hentschke	Signature:	Signature:	Signature:
Printed Name: Walt Payson	Printed Name: Tony Hentschke	Printed Name:	Printed Name:	Printed Name:
Firm: Tetra Tech	Firm: CAS	Firm:	Firm:	Firm:
Date/Time: 6-8-11 / 1700	Date/Time: 6/9/11 0945	Date/Time:	Date/Time:	Date/Time:

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 10/2010

CAS ASP/CLP Batching Form/Login Sheet

Client Proj #: 112IC03292-02	Batch Complete: Yes	Date Revised:
Submission: R1103216	Diskette Requested: No	Date Due: 6/23/11
Client: Tetra Tech NUS, Inc.	Date: 6/13/11	Protocol: MCAWW
Client Rep: MPERRY	Custody Seal: Present/Absent:	Shipping No.:
Project: MSA Groundwater	Chain of Custody: Present/Absent:	SDG #:

CAS Job #	Client/EPA ID	Matrix	Requested Parameters	Date Sampled	Date Received	pH (Solids)	% Solids	Remarks Sample Condition
R1103216-001	MW30D-060811	Water	218.6	6/8/11	6/9/11			
R1103216-002	DMW5I-060811	Water	218.6	6/8/11	6/9/11			
R1103216-003	DMW5S-060811	Water	218.6	6/8/11	6/9/11			
R1103216-004	DMW3I-060811	Water	218.6	6/8/11	6/9/11			
R1103216-005	MW31D-060811	Water	218.6	6/8/11	6/9/11			

Folder Comments:

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** EWOLFE **Analysis Lot:** 249483 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1105590-01	Chromium, Hexavalent, Dissolved	CCV		Water	0.49 µg/L	10 mL	0.495 µg/L	1					6/9/11 09:34:00	N	IV
RQ1105590-07	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 09:42:00	N	IV
RQ1105590-16	Chromium, Hexavalent, Dissolved	MB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 09:42:00	N	IV
RQ1105590-13	Chromium, Hexavalent, Dissolved	LCS		Water	0.20 µg/L	10 mL	0.203 µg/L	1	0.010	0.020	102		6/9/11 09:50:00	N	IV
R1103210-019	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.050 µg/L	1	0.010	0.020			6/9/11 09:58:00	N	IV
R1103210-020	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.051 µg/L	1	0.010	0.020			6/9/11 10:07:00	N	IV
R1103210-021	Chromium, Hexavalent, Dissolved	N/A		Water	0.06 µg/L	10 mL	0.056 µg/L	1	0.010	0.020			6/9/11 10:15:00	N	IV
R1103210-013	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.055 µg/L	1	0.010	0.020			6/9/11 10:23:00	N	IV
R1103210-014	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.054 µg/L	1	0.010	0.020			6/9/11 10:30:00	N	IV
R1103210-015	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.051 µg/L	1	0.010	0.020			6/9/11 10:38:00	N	IV
R1103210-004	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.054 µg/L	1	0.010	0.020			6/9/11 10:46:00	N	IV
R1103210-005	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.055 µg/L	1	0.010	0.020			6/9/11 10:54:00	N	IV
R1103210-006	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.052 µg/L	1	0.010	0.020			6/9/11 11:02:00	N	IV
RQ1105590-02	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.499 µg/L	1					6/9/11 11:09:00	N	IV
RQ1105590-08	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 11:17:00	N	IV
R1103210-010	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.046 µg/L	1	0.010	0.020			6/9/11 11:25:00	N	IV
R1103210-011	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.053 µg/L	1	0.010	0.020			6/9/11 11:33:00	N	IV
R1103210-012	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 ~~0.06~~ µg/L	10 mL	0.051 ~~0.057~~ µg/L	1	0.010	0.020			6/9/11 11:41:00	N	IV
R1103210-016	Chromium, Hexavalent, Dissolved	N/A		Water	0.06 µg/L	10 mL	0.058 µg/L	1	0.010	0.020			6/9/11 11:48:00	N	IV
R1103210-017	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.052 µg/L	1	0.010	0.020			6/9/11 11:56:00	N	IV
R1103210-018	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.054 µg/L	1	0.010	0.020			6/9/11 12:04:00	N	IV
R1103210-007	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.046 µg/L	1	0.010	0.020			6/9/11 12:12:00	N	IV
R1103210-008	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.046 µg/L	1	0.010	0.020			6/9/11 12:19:00	N	IV
R1103210-009	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.047 µg/L	1	0.010	0.020			6/9/11 12:27:00	N	IV

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** EWOLFE **Analysis Lot:** 249483 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
R1103210-022	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.052 µg/L	1	0.010	0.020			6/9/11 12:35:00	N	IV
RQ1105590-03	Chromium, Hexavalent, Dissolved	CCV		Water	0.49 µg/L	10 mL	0.494 µg/L	1					6/9/11 12:43:00	N	IV
RQ1105590-09	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 12:51:00	N	IV
RQ1105590-14	Chromium, Hexavalent, Dissolved	LCS		Water	0.20 µg/L	10 mL	0.198 µg/L	1	0.010	0.020	99		6/9/11 12:58:00	N	IV
R1103210-001	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.053 µg/L	1	0.010	0.020			6/9/11 13:06:00	N	IV
R1103210-002	Chromium, Hexavalent, Dissolved	N/A		Water	0.06 µg/L	10 mL	0.062 µg/L	1	0.010	0.020			6/9/11 13:14:00	N	IV
R1103210-003	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.048 µg/L	1	0.010	0.020			6/9/11 13:22:00	N	IV
R1103210-023	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.049 µg/L	1	0.010	0.020			6/9/11 13:30:00	N	IV
R1103210-024	Chromium, Hexavalent, Dissolved	N/A		Water	0.06 µg/L	10 mL	0.059 µg/L	1	0.010	0.020			6/9/11 13:37:00	N	IV
R1103210-025	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.050 µg/L	1	0.010	0.020			6/9/11 13:45:00	N	IV
R1103210-026	Chromium, Hexavalent, Dissolved	N/A		Water	0.05 µg/L	10 mL	0.047 µg/L	1	0.010	0.020			6/9/11 13:53:00	N	IV
R1103210-027	Chromium, Hexavalent, Dissolved	N/A		Water	0.04 µg/L	10 mL	0.044 µg/L	1	0.010	0.020			6/9/11 14:01:00	N	IV
R1103216-003	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 14:08:00	N	IV
RQ1105590-04	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.499 µg/L	1					6/9/11 14:16:00	N	IV
RQ1105590-10	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 14:24:00	N	IV
R1103216-002	Chromium, Hexavalent, Dissolved	N/A		Water	0.01 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 14:32:00	N	IV
R1103216-004	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 14:40:00	N	IV
R1103216-001	Chromium, Hexavalent, Dissolved	N/A		Water	0.02 µg/L	10 mL	0.020 µg/L	1	0.010	0.020			6/9/11 14:47:00	N	IV
R1103216-005	Chromium, Hexavalent, Dissolved	N/A		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 14:55:00	N	IV
RQ1105590-17	Chromium, Hexavalent, Dissolved	MS	R1103210-009	Water	0.24 µg/L	10 mL	0.245 µg/L	1	0.010	0.020	99		6/9/11 15:03:00	N	IV
RQ1105590-18	Chromium, Hexavalent, Dissolved	DMS	R1103210-009	Water	0.25 µg/L	10 mL	0.251 µg/L	1	0.010	0.020	102	2	6/9/11 15:11:00	N	IV
RQ1105590-19	Chromium, Hexavalent, Dissolved	MS	R1103210-023	Water	0.25 µg/L	10 mL	0.249 µg/L	1	0.010	0.020	100		6/9/11 15:19:00	N	IV
RQ1105590-20	Chromium, Hexavalent, Dissolved	DMS	R1103210-023	Water	0.25 µg/L	10 mL	0.248 µg/L	1	0.010	0.020	100	<1	6/9/11 15:26:00	N	IV
RQ1105590-21	Chromium, Hexavalent, Dissolved	MS	R1103210-027	Water	0.24 ~~0.27~~ µg/L OM 6/13/11	10 mL	0.243 ~~0.273~~ µg/L OM 6/13/11	1	0.010	0.020	114 ~~99~~ OM 6/13/11		6/9/11 15:34:00	N	IV

0502

# indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: R-IC-05 **Analyst:** EWOLFE **Analysis Lot:** 249483 **Method/Testcode:** 218.6/Cr6 D

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
RQ1105590-22	Chromium, Hexavalent, Dissolved	DMS	R1103210-027	Water	0.25 µg/L	10 mL	0.252 µg/L	1	0.010	0.020	104	8	6/9/11 15:42:00	N	IV
RQ1105590-05	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.502 µg/L	1					6/9/11 15:50:00	N	IV
RQ1105590-11	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 15:57:00	N	IV
RQ1105590-15	Chromium, Hexavalent, Dissolved	LCS		Water	0.20 µg/L	10 mL	0.204 µg/L	1	0.010	0.020	102		6/9/11 16:05:00	N	IV
RQ1105590-23	Chromium, Hexavalent, Dissolved	MS	R1103216-005	Water	0.21 µg/L	10 mL	0.206 µg/L	1	1.1	1.1	103		6/9/11 16:13:00	N	IV
RQ1105590-24	Chromium, Hexavalent, Dissolved	DMS	R1103216-005	Water	0.20 µg/L	10 mL	0.205 µg/L	1	1.1	1.1	102	<1	6/9/11 16:21:00	N	IV
RQ1105590-06	Chromium, Hexavalent, Dissolved	CCV		Water	0.50 µg/L	10 mL	0.504 µg/L	1					6/9/11 17:08:00	N	IV
RQ1105590-12	Chromium, Hexavalent, Dissolved	CCB		Water	0.00 µg/L	10 mL	0.020 µg/L U	1	0.010	0.020			6/9/11 17:15:00	N	IV

f indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
—	Filter Blank for 6/7/11	7199 218.6RL 218.6LL	Water DrinkingWater	—	Yes No Field	Millex HV RONA88641K	8.54	9.32	CMW 6/7/11	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
—	Filter Blank for 6/8/11	7199 218.6RL 218.6LL	Water DrinkingWater	—	Yes No Field	millex HV RONA88641K	5.95	9.46	EW 6/9/11 1038	Buffer 10%H2SO4 10%NaOH*	WC103052 — —
6/8/11 0931	R1103194-003 DMW2A Add to orange	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 EW 6/8/11 1455	Yes No Field	millex HV RONA88641K	4.49	9.33	EW 6/8/11 1040	Buffer 10%H2SO4 10%NaOH*	WC103052 — —
6/8/11 0931	R1103194-002 DMW2S	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 1300	Yes No Field	millex HV RONA88641K	5.22	9.33	EW 6/8/11 1042	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/8/11 0931	R1103194-001 DMW3D	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 1240	Yes No Field	millex HV RONA88641K	5.27	9.34	EW 6/8/11 1045	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/8/11 0931	R1103194-004 DMW4A Add to Red	7199 218.6RL 218.6LL	Water DrinkingWater	6/7/11 1615	Yes No Field	millex HV RONA88641K	5.75	9.36	EW 6/8/11 1046	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
6/9/11 0745	R1103210-002 SW37B	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1323	Yes No Field	millex HV RONA88641K	8.03	9.36	6/9/11 852	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
	R1103210-009 SW39C	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1247	Yes No Field		8.83	9.41	6/9/11 854	Buffer 10%H2SO4 10%NaOH*	WC103052F — —
	R1103210-021 SW43C	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1212	Yes No Field		8.68	9.36	6/9/11 855	Buffer 10%H2SO4 10%NaOH*	WC103052F — —

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

00028

0026

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lo
6/9/11 0745	R1103210-018 SW42C	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1237	(Yes) No Field	Millex HV RONA88641K	8.76	9.42	AW 6/9/11 855	Buffer	WC10305
										10%H2SO4	—
										10%NaOH*	—
	R1103210-003 SW37C	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1328	(Yes) No Field		8.80	9.45	AW 6/9/11 857	Buffer	WC1030
										10%H2SO4	—
										10%NaOH*	—
	R1103210-020 SW43B	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1211	(Yes) No Field		8.73	9.31	AW 6/9/11 858	Buffer	WC1030
										10%H2SO4	—
										10%NaOH*	—
	R1103210-019 SW43A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1210	(Yes) No Field		8.71	9.46	AW 6/9/11 858	Buffer	WC10305
										10%H2SO4	—
										10%NaOH*	—
	R1103210-027 SW45C	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1254	(Yes) No Field		8.66	9.39	AW 6/9/11 859	Buffer	WC10305
										10%H2SO4	—
										10%NaOH*	—
	R1103210-026 SW45B	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1255	(Yes) No Field		8.68	9.46	AW 6/9/11 903	Buffer	WC10305
										10%H2SO4	—
										10%NaOH*	—
	R1103210-025 SW45A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1253	(Yes) No Field		8.66	9.36	AW 6/9/11 904	Buffer	WC10305
										10%H2SO4	—
										10%NaOH*	—
	R1103210-013 SW41A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1216	(Yes) No Field		8.71	9.48	AW 6/9/11 905	Buffer	WC10305
										10%H2SO4	—
										10%NaOH*	—
	R1103210-022 SW44A	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1259	(Yes) No Field		8.72	9.35	AW 6/9/11 906	Buffer	WC10305
										10%H2SO4	—
										10%NaOH*	—

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

62009

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
6/9/11 0745	R1103210-010 SW40A	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1229	Yes No Field	Millex HV RONA8864IK	8.69	9.36	6/9/11 907	Buffer	WC1030S2F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-014 SW41B	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1217	Yes No Field		8.72	9.44	6/9/11 908	Buffer	WC1030S2F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-012 SW40C	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1231	Yes No Field		8.73	9.36	6/9/11 909	Buffer	WC1030S2F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-008 SW39B	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1246	Yes No Field		8.22	9.39	6/9/11 910	Buffer	WC1030S2F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-006 SW38C	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1224	Yes No Field		8.80	9.48	6/9/11 911	Buffer	WC1030S2F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-016 SW42A	7199 218.6RL ~~218.6LL~~	Water DrinkingWater	6/8/11 1235	Yes No Field		8.80	9.45	6/9/11 912	Buffer	WC1030S2F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-024 SW44C	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1301	Yes No Field		8.77	9.36	6/9/11 913	Buffer	WC1030S2F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-017 SW42B	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1236	Yes No Field		8.83	9.39	6/9/11 914	Buffer	WC1030S2F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-001 SW37A	7199 218.6RL ~~218.6LL~~	Water DrinkingWater	6/8/11 1316	Yes No Field		8.54	9.49	6/9/11 916	Buffer	WC1030S2F
										10%H2SO4	—
										10%NaOH*	—

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
6/9/11 0745	R1103210-011 SW40B	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1230	Yes No Field	Millex HV RONA88641K	8.82	9.35	CW 6/9/11 916	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-023 SW44B	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1300	Yes No Field		8.75	9.36	CW 6/9/11 917	Buffer	WC103052
										10%H2SO4	—
										10%NaOH*	—
	R1103210-015 SW41C	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1218	Yes No Field		8.71	9.49	CW 6/9/11 919	Buffer	WC103052I
										10%H2SO4	—
										10%NaOH*	—
	R1103210-005 SW38B	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1223	Yes No Field		8.70	9.36	CW 6/9/11 920	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-007 SW39A	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1245	Yes No Field		8.10	9.39	CW 6/9/11 922	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103210-004 SW38A	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1222	Yes No Field		8.69	9.45	CW 6/9/11 923	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
—	Filter blank for 6/9/11	7199 218.6RL 218.6LL	Water DrinkingWater	—	Yes No Field		8.55	9.36	CW 6/9/11 924	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/9/11 0945	R1103216-003 MW59	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1205	Yes No Field	Millex HV RONA88641K	4.32	9.45	CW 6/9/11 1037	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103216-002 MW5I	7199 218.6RL 218.6LL	Water DrinkingWater	6/8/11 1345	Yes No Field		4.55	9.37	CW 6/9/11 1039	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

* Regular Level Cr+6 only

Date / Time Received	Sample ID	Analysis	Matrix	Date / Time Sampled	Sample Filtered	Filter Lot ID	pH @ Receipt	pH @ Adjust	Analyst / Date / Time of pH Adjust	Solutions Used For pH Adjust	Solution Lot ID
6/9/11 0945	R1103216-004 MW3I	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1501	(Yes) No Field	Millex HV R0NA88641K	5.70	9.45	CMW 6/9/11 1040	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103216-005 MW31D	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1545	(Yes) No Field		7.33	9.41	CMW 6/9/11 1042	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103216-001 MW30D	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/8/11 1225	~~Yes~~ No Field		6.36	9.38	CMW 6/9/11 1043	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/9/11 1023	R1103226-006 SPOA-018	7199 218.6RL (218.6LL)	Water (DrinkingWater)	6/8/11 1537	(Yes) No Field	Millex HV R0NA88641K	5.46	9.37	CMW 6/9/11 1451	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	R1103226-005 CSWD PARKWATER	7199 218.6RL (218.6LL)	Water (DrinkingWater)	6/8/11 1521	~~Yes~~ No Field		7.55	9.44	CMW 6/9/11 1453	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
6/10/11 —	Filter Blank for 6/10/11	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/9/11 —	(Yes) No Field	Millex HV R0NA88641K	8.31	9.45	CMW 6/10/11 1133	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	MW3	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/9/11 1255	(Yes) No Field		6.54	9.33	CMW 6/10/11 1134	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	MW34S	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/9/11 1305	(Yes) No Field		5.66	9.43	CMW 6/10/11 1135	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—
	PMW11I	7199 218.6RL (218.6LL)	(Water) DrinkingWater	6/9/11 1530	(Yes) No Field		5.71	9.32	CMW 6/10/11 1136	Buffer	WC103052F
										10%H2SO4	—
										10%NaOH*	—

Target pH Range per Method (adjust to the middle of required range): 7199 & 218.6 LL 9.0 – 9.5 ; 218.6 RL 9.3 – 9.7

*** Regular Level Cr+6 only**

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client:	Tetra Tech NUS, Inc.	**Service Request:**	R1103216
Project:	MSA Groundwater/112IC03292-02	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1103216-MB	**Basis:**	NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chromium, Hexavalent, Dissolved	218.6	0.020	U	µg/L	0.020	0.010	1	NA	6/9/11 09:42	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292-02
Sample Matrix: Water

Service Request: R1103216
Date Analyzed: 6/ 9/11

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1103216-LCS1 Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6	0.203	0.200	102	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292-02
Sample Matrix: Water

Service Request: R1103216
Date Analyzed: 6/ 9/11

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1103216-LCS2 Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6	0.198	0.200	99	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292-02
Sample Matrix: Water

Service Request: R1103216
Date Analyzed: 6/ 9/11

Lab Control Sample Summary
General Chemistry Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1103216-LCS3 Result	Spike Amount	% Rec	% Rec Limits
Chromium, Hexavalent, Dissolved	218.6	0.204	0.200	102	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

6/9/11 218.6LL IC#5 Analysts: C. Woods & Wolfe Pipet: Ol' Blue

Sequence: 06-09-2011LL
Operator: ROCACQGEN03

Title:
Datasource: DJZ93HD1_local
Location: IC5\Data Files\Low-Level Chromium (VI)\2011 Low-Level Chrome\06June2011\06-09-2011
Timebase: IC5
#Samples: 64

Created: 2/17/2010 3:24:15 PM by ROCACQGEN03
Last Update: 6/10/2011 10:49:57 AM by ROCACQGEN03

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Dil. Factor	Comment
1	STANDARD 1	Standard	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:01:42 AM	1.0000	218.6LL/218.6RL
2	STANDARD 2	Standard	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:09:53 AM	1.0000	218.6LL/218.6RL
3	STANDARD 3	Standard	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:18:05 AM	1.0000	218.6LL/218.6RL
4	STANDARD 4	Standard	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:26:16 AM	1.0000	218.6LL/218.6RL
5	ICV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:34:27 AM	1.0000	218.6LL/218.6RL
6	ICB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:42:37 AM	1.0000	218.6LL/218.6RL
7	LCS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:50:48 AM	1.0000	218.6LL/218.6RL
8	R1103210-019	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 9:58:59 AM	1.0000	218.6LL
9	R1103210-020	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:07:10 AM	1.0000	218.6LL
10	R1103210-021	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:15:21 AM	1.0000	218.6LL
11	R1103210-013	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:23:09 AM	1.0000	218.6LL
12	R1103210-014	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:30:56 AM	1.0000	218.6LL
13	R1103210-015	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:38:43 AM	1.0000	218.6LL
14	R1103210-004	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:46:31 AM	1.0000	218.6LL
15	R1103210-005	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 10:54:18 AM	1.0000	218.6LL
16	R1103210-006	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:02:05 AM	1.0000	218.6LL
17	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:09:52 AM	1.0000	218.6LL/218.6RL
18	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:17:39 AM	1.0000	218.6LL/218.6RL
19	R1103210-010	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:25:26 AM	1.0000	218.6LL
20	R1103210-011	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:33:14 AM	1.0000	218.6LL
21	R1103210-012	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:41:01 AM	1.0000	218.6LL
22	R1103210-016	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:48:48 AM	1.0000	218.6LL
23	R1103210-017	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 11:56:34 AM	1.0000	218.6LL
24	R1103210-018	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:04:22 PM	1.0000	218.6LL
25	R1103210-007	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:12:09 PM	1.0000	218.6LL
26	R1103210-008	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:19:56 PM	1.0000	218.6LL
27	R1103210-009	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:27:43 PM	1.0000	218.6LL

00025

2-Copies R 3210 R 3216

Reviewed & Approved
By:
Date: 6/13/11

Title:
Datasource: DJZ93HD1_local
Location: IC5\Data Files\Low-Level Chromium (VI)\2011 Low-Level Chrome\06June2011\06-09-2011
Timebase: IC5
#Samples: 64

Created: 2/17/2010 3:24:15 PM by ROCACQGEN03
Last Update: 6/10/2011 10:49:57 AM by ROCACQGEN03

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Dil. Factor	Comment
28	R11103210-022	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:35:30 PM	1.0000	218.6LL
29	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:43:17 PM	1.0000	218.6LL/218.6RL
30	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:51:05 PM	1.0000	218.6LL/218.6RL
31	LCS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 12:58:52 PM	1.0000	218.6LL/218.6RL
32	R1103210-001	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:06:39 PM	1.0000	218.6LL
33	R1103210-002	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:14:26 PM	1.0000	218.6LL
34	R1103210-003	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:22:14 PM	1.0000	218.6LL
35	R1103210-023	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:30:01 PM	1.0000	218.6LL
36	R1103210-024	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:37:48 PM	1.0000	218.6LL
37	R1103210-025	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:45:35 PM	1.0000	218.6LL
38	R1103210-026	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 1:53:23 PM	1.0000	218.6LL
39	R1103210-027	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:01:09 PM	1.0000	218.6LL
40	R1103216-003	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:08:57 PM	1.0000	218.6LL
41	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:16:44 PM	1.0000	218.6LL/218.6RL
42	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:24:31 PM	1.0000	218.6LL/218.6RL
43	R1103216-002	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:32:18 PM	1.0000	218.6LL
44	R1103216-004	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:40:05 PM	1.0000	218.6LL
45	R1103216-001	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:47:52 PM	1.0000	218.6LL
46	R1103216-005	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 2:55:39 PM	1.0000	218.6LL
47	R1103210-009 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:03:26 PM	1.0000	218.6LL
48	R1103210-009 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:11:14 PM	1.0000	218.6LL
49	R1103210-023 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:19:00 PM	1.0000	218.6LL
50	R1103210-023 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:26:48 PM	1.0000	218.6LL
51	R1103210-027 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:34:35 PM	1.0000	218.6LL
52	R1103210-027 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:42:22 PM	1.0000	218.6LL
53	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:50:09 PM	1.0000	218.6LL/218.6RL
54	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 3:57:56 PM	1.0000	218.6LL/218.6RL

Title:
Datasource: DJZ93HD1_local
Location: IC5\Data Files\Low-Level Chromium (VI)\2011 Low-Level Chrome\06June2011\06-09-2011
Timebase: IC5
#Samples: 64

Created: 2/17/2010 3:24:15 PM by ROCACQGEN03
Last Update: 6/10/2011 10:49:57 AM by ROCACQGEN03

No.	Name	Type	Inj. Vol.	Program	Method	Status	Inj. Date/Time	Dil. Factor	Comment
55	LCS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:05:43 PM	1.0000	218.6LL/218.6RL
56	R1103216-005 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:13:30 PM	1.0000	218.6LL
57	R1103216-005 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:21:17 PM	1.0000	218.6LL
58	FILTER BLANK FOR 6/9/11	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:29:04 PM	1.0000	218.6LL
59	R1103226-006	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:36:52 PM	1.0000	218.6LL - DW
60	R1103226-005	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:44:39 PM	1.0000	218.6LL - DW
61	R1103226-005 MS	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 4:52:26 PM	1.0000	218.6LL - DW
62	R1103226-005 MSD	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 5:00:13 PM	1.0000	218.6LL - DW
63	CCV	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 5:08:00 PM	1.0000	218.6LL/218.6RL
64	CCB	Unknown	1500.0	Fast Hexavalent Chromium LL	5-060911CLL	Finished	6/9/2011 5:15:47 PM	1.0000	218.6LL/218.6RL

Client: Tetra Tech NUS, Inc. **Service Request:** R1103216
Project: MSA Groundwater/112IC03292-02

Continuing Calibration Verification (CCV) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6 **Units:** µg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	249483	RQ1105590-01	6/9/11 09:34	0.500	0.495	99	95 - 105
CCV2	249483	RQ1105590-02	6/9/11 11:09	0.500	0.499	100	95 - 105
CCV3	249483	RQ1105590-03	6/9/11 12:43	0.500	0.494	99	95 - 105
CCV4	249483	RQ1105590-04	6/9/11 14:16	0.500	0.499	100	95 - 105
CCV5	249483	RQ1105590-05	6/9/11 15:50	0.500	0.502	100	95 - 105
CCV6	249483	RQ1105590-06	6/9/11 17:08	0.500	0.504	101	95 - 105

Client: Tetra Tech NUS, Inc.
Project: MSA Groundwater/112IC03292-02

Service Request: R1103216

Continuing Calibration Blank (CCB) Summary
Chromium, Hexavalent, Dissolved

Analytical Method: 218.6

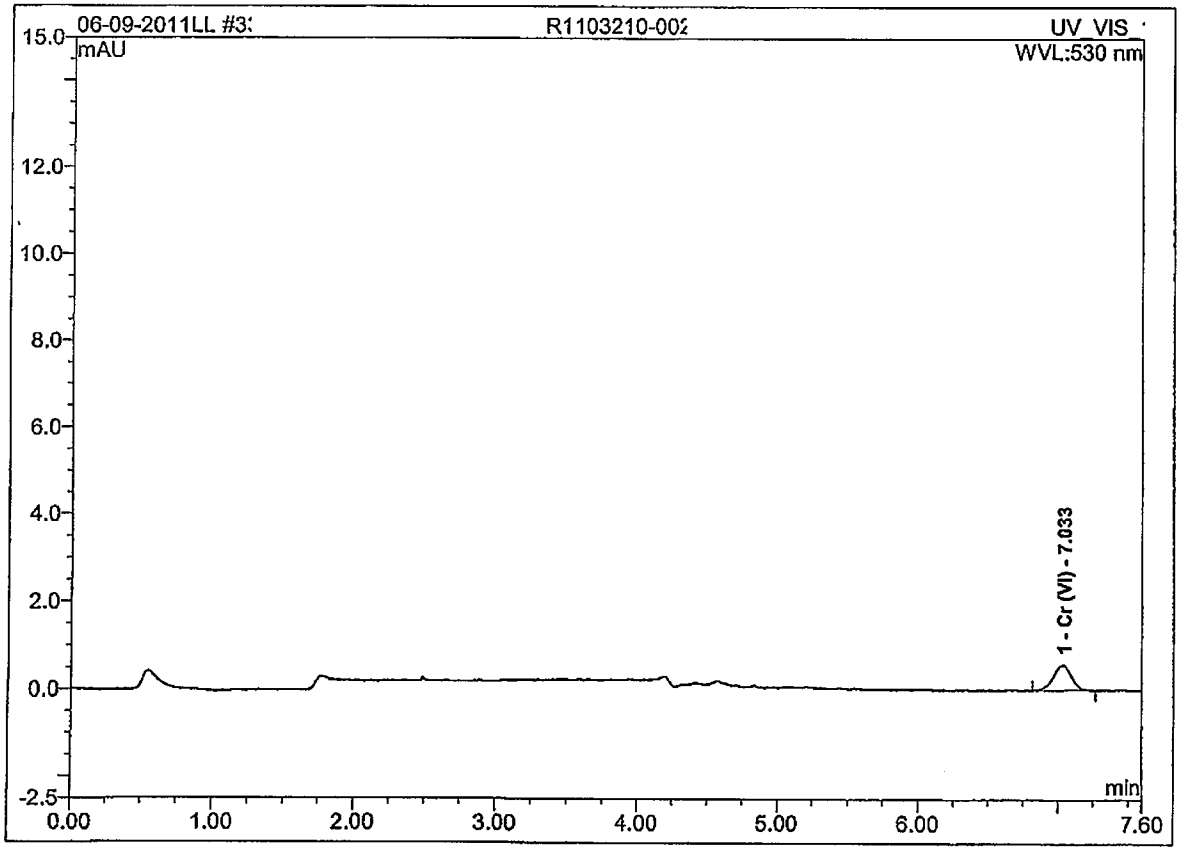
Units: µg/L

	Analysis Lot	Lab Code	Date Analyzed	MDL	MRL	Result	Q
CCB1	249483	RQ1105590-07	6/9/11 09:42	0.010	0.020	0.020	U
CCB2	249483	RQ1105590-08	6/9/11 11:17	0.010	0.020	0.020	U
CCB3	249483	RQ1105590-09	6/9/11 12:51	0.010	0.020	0.020	U
CCB4	249483	RQ1105590-10	6/9/11 14:24	0.010	0.020	0.020	U
CCB5	249483	RQ1105590-11	6/9/11 15:57	0.010	0.020	0.020	U
CCB6	249483	RQ1105590-12	6/9/11 17:15	0.010	0.020	0.020	U

33 R1103210-002

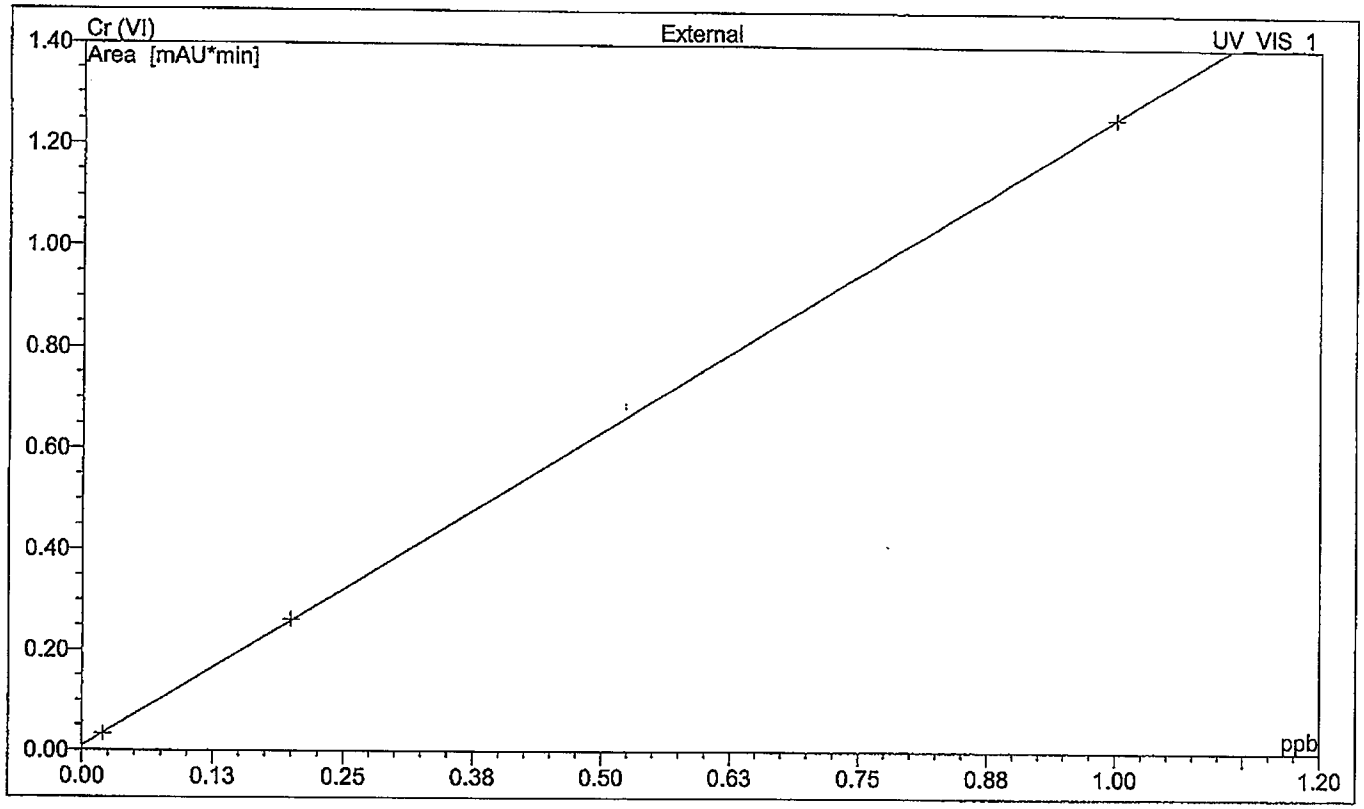
218.6LL

Sample Name:	**R1103210-002**	*Injection Volume:*	**1500.0**
Vial Number:	**35**	*Channel:*	**UV_VIS_1**
Sample Type:	**unknown**	*Dilution Factor:*	**1**
Control Program:	**Fast Hexavalent Chromium LL**	*Sample Weight:*	**1.0000**
Quantif. Method:	**5-060911CLL**	*Sample Amount:*	**1.0000**
Recording Time:	**6/9/2011 13:14**		



No.	Ref.Time min	Peak Name	Height mAU	Area mAU*min	Rel.Area %	Amount ppb	Type
1	7.033	Cr (VI)	0.575	0.087	100.00	0.06214	BMB
Total:			0.575	0.087	100.00	0.062	

AL
EW
6/10/11



No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Quantification Method
1	7.06	Cr (VI)	LOff	3	99.9991	0.0092	1.2511	5-060911CLL

APPENDIX C—CHEMICAL RESULTS DATA TABLE

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND
PAGE 1 OF 24

SAMPLE ID:	MSA-SW37A-060811	MSA-SW37B-060811	MSA-SW37C-060811	MSA-SW38A-060811	MSA-SW38B-060811	MSA-SW38C-060811	MSA-SW39A-060811	MSA-SW39B-060811
LABORATORY ID:	240-948-26	240-948-27	240-948-28	240-948-14	240-948-15	240-948-16	240-948-2	240-948-3
SAMPLE DATE:	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW39A	MSA-SW39B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
VOLATILES (ug/l)								
1,1,1,2-TETRACHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,1-TRICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-TETRACHLOROETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1-DICHLOROETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,3-TRICHLOROBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-TRICHLOROPROPANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,2,3-TRIMETHYLBENZENE	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
1,2,4-TRICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-TRIMETHYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
1,2-DIBROMOETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,2-DICHLOROPROPANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-DICHLOROPROPANE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,4-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,2-DICHLOROPROPANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-BUTANONE	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
2-CHLOROETHYL VINYL ETHER	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
2-CHLOROTOLUENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
2-HEXANONE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
4-CHLOROTOLUENE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-ISOPROPYLTOLUENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
4-METHYL-2-PENTANONE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
ACETONE	1.3 J	1.4 J	1.1 U	1.7 J	2.3 J	1.7 J	1.5 J	1.1 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW37A-060811	MSA-SW37B-060811	MSA-SW37C-060811	MSA-SW38A-060811	MSA-SW38B-060811	MSA-SW38C-060811	MSA-SW39A-060811	MSA-SW39B-060811
LABORATORY ID:	240-948-26	240-948-27	240-948-28	240-948-14	240-948-15	240-948-16	240-948-2	240-948-3
SAMPLE DATE:	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW39A	MSA-SW39B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
BROMOCHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMODICHLOROMETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
BROMOFORM	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
BROMOMETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CARBON DISULFIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CARBON TETRACHLORIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
CHLORODIBROMOMETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
CHLOROETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
CHLOROFORM	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CIS-1,2-DICHLOROETHENE	0.35 J	0.53 J	0.17 U	2.3	1.1	0.61 J	0.17 U	0.17 U
CIS-1,3-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
DIBROMOMETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DICHLORODIFLUOROMETHANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
DIISOPROPYL ETHER	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ETHYL TERT-BUTYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ETHYLBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
HEXACHLOROBUTADIENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
ISOPROPYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
N-BUTYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
N-PROPYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
O-XYLENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-AMYL METHYL ETHER	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TERT-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TERTIARY-BUTYL ALCOHOL	3.9 UR	3.9 UR	3.9 UR	3.9 UR	3.9 UR	3.9 UR	3.9 UR	3.9 UR
TETRACHLOROETHENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW37A-060811	MSA-SW37B-060811	MSA-SW37C-060811	MSA-SW38A-060811	MSA-SW38B-060811	MSA-SW38C-060811	MSA-SW39A-060811	MSA-SW39B-060811
LABORATORY ID:	240-948-26	240-948-27	240-948-28	240-948-14	240-948-15	240-948-16	240-948-2	240-948-3
SAMPLE DATE:	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW39A	MSA-SW39B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
TOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TOTAL XYLENES	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRICHLOROETHENE	0.48 J	0.58 J	0.68 J	1.7	1.5	0.87 J	0.17 U	0.19 J
TRICHLOROFLUOROMETHANE	0.21 UJ	0.21 UJ	0.21 UJ	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
VINYL ACETATE	0.19 UR	0.19 UR	0.19 UR	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.22 U	0.42 J	0.22 U	1.4	0.42 J	0.22 U	0.22 U	0.22 U
SEMIVOLATILES (ug/l)								
1,1-BIPHENYL	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
1,4-DIOXANE	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
2,4,5-TRICHLOROPHENOL	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
2,4,6-TRICHLOROPHENOL	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
2,4-DICHLOROPHENOL	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
2,4-DIMETHYLPHENOL	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
2,4-DINITROPHENOL	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2,4-DINITROTOLUENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2,6-DINITROTOLUENE	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
2-CHLORONAPHTHALENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
2-CHLOROPHENOL	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
2-METHYLNAPHTHALENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
2-METHYLPHENOL	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
2-NITROANILINE	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
2-NITROPHENOL	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
3&4-METHYLPHENOL	0.71 U	0.71 U	0.71 U	0.72 U	0.72 U	0.71 U	0.71 U	0.71 U
3,3'-DICHLOROBENZIDINE	0.35 U	0.35 U	0.35 U	0.36 U	0.36 U	0.35 U	0.35 U	0.35 U
3-NITROANILINE	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
4,6-DINITRO-2-METHYLPHENOL	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
4-BROMOPHENYL PHENYL ETHER	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
4-CHLORO-3-METHYLPHENOL	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
4-CHLOROANILINE	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
4-CHLOROPHENYL PHENYL ETHER	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW37A-060811	MSA-SW37B-060811	MSA-SW37C-060811	MSA-SW38A-060811	MSA-SW38B-060811	MSA-SW38C-060811	MSA-SW39A-060811	MSA-SW39B-060811
LABORATORY ID:	240-948-26	240-948-27	240-948-28	240-948-14	240-948-15	240-948-16	240-948-2	240-948-3
SAMPLE DATE:	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW39A	MSA-SW39B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
4-NITROANILINE	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
4-NITROPHENOL	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
ACENAPHTHENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
ACENAPHTHYLENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
ACETOPHENONE	0.32 U	0.32 U	0.32 U	0.33 U	0.33 U	0.32 U	0.32 U	0.32 U
ANTHRACENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
ATRAZINE	0.32 U	0.32 U	0.32 U	0.33 U	0.33 U	0.32 U	0.32 U	0.32 U
BENZALDEHYDE	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
BENZO(A)ANTHRACENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
BENZO(A)PYRENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 UL	0.095 UL
BENZO(B)FLUORANTHENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
BENZO(G,H,I)PERYLENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 UL	0.095 UL
BENZO(K)FLUORANTHENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
BIS(2-CHLOROETHOXY)METHANE	0.3 U	0.3 U	0.3 U	0.31 U	0.31 U	0.3 U	0.3 U	0.3 U
BIS(2-CHLOROETHYL)ETHER	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
BIS(2-ETHYLHEXYL)PHTHALATE	2.7 B	2.2 B	1.2 B	1.1 B	0.77 U	0.91 B	0.76 U	0.76 U
BUTYL BENZYL PHTHALATE	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
CAPROLACTAM	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
CARBAZOLE	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
CHRYSENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
DIBENZO(A,H)ANTHRACENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 UL	0.095 UL
DIBENZOFURAN	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
DIETHYL PHTHALATE	0.57 U	0.57 U	0.57 U	0.58 U	0.58 U	0.57 U	0.57 U	0.57 U
DIMETHYL PHTHALATE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DI-N-BUTYL PHTHALATE	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
DI-N-OCTYL PHTHALATE	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 UL	0.76 UL
FLUORANTHENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
FLUORENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
HEXACHLOROBENZENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
HEXACHLOROBUTADIENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
HEXACHLOROCYCLOPENTADIENE	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
HEXACHLOROETHANE	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
INDENO(1,2,3-CD)PYRENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 UL	0.095 UL

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND
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SAMPLE ID:	MSA-SW37A-060811	MSA-SW37B-060811	MSA-SW37C-060811	MSA-SW38A-060811	MSA-SW38B-060811	MSA-SW38C-060811	MSA-SW39A-060811	MSA-SW39B-060811
LABORATORY ID:	240-948-26	240-948-27	240-948-28	240-948-14	240-948-15	240-948-16	240-948-2	240-948-3
SAMPLE DATE:	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW39A	MSA-SW39B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
ISOPHORONE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
NAPHTHALENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
NITROBENZENE	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
N-NITROSODIMETHYLAMINE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
N-NITROSO-DI-N-PROPYLAMINE	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U	0.76 U	0.76 U
N-NITROSODIPHENYLAMINE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
PENTACHLOROPHENOL	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
PHENANTHRENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
PHENOL	0.57 U	0.57 U	0.63 J	0.58 U	0.58 U	0.57 U	0.57 U	0.57 U
PYRENE	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U	0.095 U	0.095 U
TOTAL METALS (ug/l)								
ANTIMONY	0.29 B	0.14 B	0.1 B	0.28 B	0.28 B	0.27 B	0.29 B	0.29 B
ARSENIC	1.9 J	2 J	2 J	2 J	1.9 J	1.9 J	1.7 J	1.6 J
BARIUM	9.2	9.3	9.3	9.2	9.3	9	10	9.6
BERYLLIUM	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U
CADMIUM	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U
CHROMIUM	0.97 B	1.2 B	1.3 B	1.5 J	1 J	1.1 J	1.8 J	1.5 J
COBALT	0.52 B	0.6 B	0.61 B	0.65 B	0.55 B	0.58 B	1.1	0.75 B
COPPER	5.4	5.8	6.1	6.7	5.6	5.9	7.1	5.2
LEAD	1.4 J	1.5 J	1.5 J	1.7 J	1.4 J	1.5 J	2.5 J	1.7 J
MERCURY	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
MOLYBDENUM	1.6 B	2.2 B	1.8 B	1.6 B	1.6 B	1.6 B	2 B	1.7 B
NICKEL	0.81 J	1 J	1.1 J	1.2 J	0.87 J	0.92 J	1.8 J	1.3 J
SELENIUM	0.75 J	0.95 J	0.78 J	0.56 J	0.53 J	0.62 J	0.54 J	0.62 J
SILVER	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
THALLIUM	0.22 B	0.25 B	0.24 B	0.22 B	0.22 B	0.22 B	0.29 B	0.24 B
TUNGSTEN	0.23 B	0.27 B	0.19 B	0.25 B	0.24 B	0.24 B	0.44 B	0.37 B
VANADIUM	2.6 J	2.6 J	2.6 J	2.6 J	2.8 J	2.6 J	3.5 J	3 J
ZINC	2.8 B	3.6 J	4.4 J	5.6 J	3.8 J	3.2 J	9.2 J	5.4 J
FILTERED METALS (ug/l)								
ANTIMONY	0.34 B	0.34 B	0.32 B	0.34 B	0.34 B	0.33 B	0.31 B	0.32 B
ARSENIC	1.4 J	1.5 J	1.4 J	1.5 J	1.7 J	1.7 J	1.2 J	1.3 J
BARIUM	7.9	7.5	7.3	7.5	7.4	7.2	7.2	7.5

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW37A-060811	MSA-SW37B-060811	MSA-SW37C-060811	MSA-SW38A-060811	MSA-SW38B-060811	MSA-SW38C-060811	MSA-SW39A-060811	MSA-SW39B-060811
LABORATORY ID:	240-948-26	240-948-27	240-948-28	240-948-14	240-948-15	240-948-16	240-948-2	240-948-3
SAMPLE DATE:	MSA-SW37A	MSA-SW37B	MSA-SW37C	MSA-SW38A	MSA-SW38B	MSA-SW38C	MSA-SW39A	MSA-SW39B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
BERYLLIUM	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U
CADMIUM	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U
CHROMIUM	0.4 B	0.95 B	0.41 B	0.39 J	0.43 J	0.44 J	0.32 J	0.42 J
COBALT	0.32 B	0.33 B	0.32 B	0.21 B	0.21 B	0.21 B	0.21 B	0.23 B
COPPER	3.8	3.8	3.8	3.6	3.7	3.8	3	3.1
LEAD	0.31 B	0.31 B	0.3 B	0.3 B	0.33 B	0.3 B	0.32 B	0.35 B
MERCURY	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
MOLYBDENUM	1.7 B	1.7 B	1.7 B	1.5 B	1.5 B	1.5 B	1.7 B	1.6 B
NICKEL	0.78 J	0.73 J	0.85 J	0.71 J	0.7 J	0.68 J	0.79 J	0.89 J
SELENIUM	0.32 U	0.32 U	0.32 U	0.61 B	0.94 B	0.95 B	0.32 U	0.37 B
SILVER	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
THALLIUM	0.23 B	0.23 B	0.23 B	0.24 B	0.24 B	0.24 B	0.26 B	0.25 B
TUNGSTEN	0.26 B	0.26 B	0.27 B	0.22 B	0.23 B	0.24 B	0.34 B	0.3 B
VANADIUM	1.6 J	1.7 J	1.6 J	1.4 J	1.6 J	1.6 J	1.5 J	1.6 J
ZINC	0.5 U	0.66 J	1.7 J	0.5 U	0.5 U	0.5 U	4 J	0.5 U
MISCELLANEOUS (ug/l)								
HEXAVALENT CHROMIUM	0.053	0.062	0.048	0.054	0.055	0.052	0.046	0.046
PERCHLORATE	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW39C-060811	MSA-SW40A-060811	MSA-SW40B-060811	MSA-SW40C-060811	MSA-SW41A-060811	MSA-SW41B-060811	MSA-SW41C-060811	MSA-SW42A-060811
LABORATORY ID:	240-948-4	240-948-20	240-948-21	240-948-22	240-948-11	240-948-12	240-948-13	240-948-23
SAMPLE DATE:	MSA-SW39C	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW42A
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
VOLATILES (ug/l)								
1,1,1,2-TETRACHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,1-TRICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-TETRACHLOROETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1-DICHLOROETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,3-TRICHLOROBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-TRICHLOROPROPANE	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,2,3-TRIMETHYLBENZENE	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
1,2,4-TRICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-TRIMETHYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
1,2-DIBROMOETHANE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,2-DICHLOROPROPANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-DICHLOROPROPANE	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,4-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,2-DICHLOROPROPANE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-BUTANONE	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
2-CHLOROETHYL VINYL ETHER	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U	0.99 U
2-CHLOROTOLUENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
2-HEXANONE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
4-CHLOROTOLUENE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-ISOPROPYLTOLUENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
4-METHYL-2-PENTANONE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
ACETONE	1.5 J	1.1 J	2.1 J	4.4 J	1.7 J	1.5 J	1.3 J	1.6 J
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW39C-060811	MSA-SW40A-060811	MSA-SW40B-060811	MSA-SW40C-060811	MSA-SW41A-060811	MSA-SW41B-060811	MSA-SW41C-060811	MSA-SW42A-060811
LABORATORY ID:	240-948-4	240-948-20	240-948-21	240-948-22	240-948-11	240-948-12	240-948-13	240-948-23
SAMPLE DATE:	MSA-SW39C	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW42A
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
BROMOCHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMODICHLOROMETHANE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
BROMOFORM	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
BROMOMETHANE	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CARBON DISULFIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CARBON TETRACHLORIDE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
CHLORODIBROMOMETHANE	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
CHLOROETHANE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
CHLOROFORM	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CIS-1,2-DICHLOROETHENE	0.17 U	1.2	1	0.49 J	1.3	0.87 J	0.55 J	0.86 J
CIS-1,3-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
DIBROMOMETHANE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DICHLORODIFLUOROMETHANE	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
DIISOPROPYL ETHER	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ETHYL TERT-BUTYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ETHYLBENZENE	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
HEXACHLOROBUTADIENE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
ISOPROPYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
N-BUTYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
N-PROPYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
O-XYLENE	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-AMYL METHYL ETHER	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TERT-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TERTIARY-BUTYL ALCOHOL	3.9 UR	3.9 UR	3.9 UR	3.9 UR	3.9 UR	3.9 UR	3.9 UR	3.9 UR
TETRACHLOROETHENE	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW39C-060811	MSA-SW40A-060811	MSA-SW40B-060811	MSA-SW40C-060811	MSA-SW41A-060811	MSA-SW41B-060811	MSA-SW41C-060811	MSA-SW42A-060811
LABORATORY ID:	240-948-4	240-948-20	240-948-21	240-948-22	240-948-11	240-948-12	240-948-13	240-948-23
SAMPLE DATE:	MSA-SW39C	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW42A
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
TOLUENE	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.17 J
TOTAL XYLENES	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRICHLOROETHENE	0.17 U	1.4	1.3	0.73 J	1.4	1.1	0.58 J	0.6 J
TRICHLOROFLUOROMETHANE	0.21 U	0.21 U	0.21 UJ	0.21 UJ	0.21 U	0.21 U	0.21 U	0.21 UJ
VINYL ACETATE	0.19 U	0.19 U	0.19 UR	0.19 UR	0.19 U	0.19 U	0.19 U	0.19 UR
VINYL CHLORIDE	0.22 U	0.22 U	0.58 J	0.22 U	0.22 U	0.22 U	0.22 U	1.2
SEMIVOLATILES (ug/l)								
1,1-BIPHENYL	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
1,4-DIOXANE	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
2,4,5-TRICHLOROPHENOL	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
2,4,6-TRICHLOROPHENOL	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
2,4-DICHLOROPHENOL	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
2,4-DIMETHYLPHENOL	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
2,4-DINITROPHENOL	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2,4-DINITROTOLUENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2,6-DINITROTOLUENE	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
2-CHLORONAPHTHALENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
2-CHLOROPHENOL	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
2-METHYLNAPHTHALENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
2-METHYLPHENOL	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
2-NITROANILINE	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
2-NITROPHENOL	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
3&4-METHYLPHENOL	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.72 U	0.72 U	0.71 U
3,3'-DICHLOROBENZIDINE	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.36 U	0.36 U	0.35 U
3-NITROANILINE	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
4,6-DINITRO-2-METHYLPHENOL	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
4-BROMOPHENYL PHENYL ETHER	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
4-CHLORO-3-METHYLPHENOL	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
4-CHLOROANILINE	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
4-CHLOROPHENYL PHENYL ETHER	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW39C-060811	MSA-SW40A-060811	MSA-SW40B-060811	MSA-SW40C-060811	MSA-SW41A-060811	MSA-SW41B-060811	MSA-SW41C-060811	MSA-SW42A-060811
LABORATORY ID:	240-948-4	240-948-20	240-948-21	240-948-22	240-948-11	240-948-12	240-948-13	240-948-23
SAMPLE DATE:	MSA-SW39C	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW42A
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
4-NITROANILINE	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
4-NITROPHENOL	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
ACENAPHTHENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
ACENAPHTHYLENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
ACETOPHENONE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.33 U	0.33 U	0.32 U
ANTHRACENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
ATRAZINE	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.33 U	0.33 U	0.32 U
BENZALDEHYDE	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
BENZO(A)ANTHRACENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
BENZO(A)PYRENE	0.095 UL	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
BENZO(B)FLUORANTHENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
BENZO(G,H,I)PERYLENE	0.095 UL	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
BENZO(K)FLUORANTHENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
BIS(2-CHLOROETHOXY)METHANE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.31 U	0.31 U	0.3 U
BIS(2-CHLOROETHYL)ETHER	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
BIS(2-ETHYLHEXYL)PHTHALATE	0.76 U	2.2 B	1.2 B	0.86 B	0.76 B	0.89 B	0.77 U	1.9 B
BUTYL BENZYL PHTHALATE	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
CAPROLACTAM	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
CARBAZOLE	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
CHRYSENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
DIBENZO(A,H)ANTHRACENE	0.095 UL	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
DIBENZOFURAN	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
DIETHYL PHTHALATE	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.58 U	0.58 U	0.57 U
DIMETHYL PHTHALATE	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DI-N-BUTYL PHTHALATE	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
DI-N-OCTYL PHTHALATE	0.76 UL	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
FLUORANTHENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
FLUORENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
HEXACHLOROBENZENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
HEXACHLOROBUTADIENE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
HEXACHLOROCYCLOPENTADIENE	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
HEXACHLOROETHANE	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
INDENO(1,2,3-CD)PYRENE	0.095 UL	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW39C-060811	MSA-SW40A-060811	MSA-SW40B-060811	MSA-SW40C-060811	MSA-SW41A-060811	MSA-SW41B-060811	MSA-SW41C-060811	MSA-SW42A-060811
LABORATORY ID:	240-948-4	240-948-20	240-948-21	240-948-22	240-948-11	240-948-12	240-948-13	240-948-23
SAMPLE DATE:	MSA-SW39C	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW42A
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
ISOPHORONE	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
NAPHTHALENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
NITROBENZENE	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
N-NITROSODIMETHYLAMINE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
N-NITROSO-DI-N-PROPYLAMINE	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.77 U	0.77 U	0.76 U
N-NITROSODIPHENYLAMINE	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
PENTACHLOROPHENOL	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
PHENANTHRENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
PHENOL	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.58 U	0.58 U	0.57 U
PYRENE	0.095 U	0.095 U	0.095 U	0.095 U	0.095 U	0.096 U	0.096 U	0.095 U
TOTAL METALS (ug/l)								
ANTIMONY	0.26 B	0.29 B	0.3 B	0.28 B	0.29 B	0.27 B	0.27 B	0.29 B
ARSENIC	1.5 J	1.8 J	2 J	1.9 J	1.9 J	1.9 J	1.8 J	1.8 J
BARIUM	8.5	8.9	9.3	8.9	9	8.7	8.9	9.2
BERYLLIUM	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U
CADMIUM	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U
CHROMIUM	1.2 J	1.2 J	1.1 B	1.1 B	1.1 J	1.1 J	1.4 J	1.1 B
COBALT	0.62 B	0.55 B	0.62 B	0.55 B	0.63 B	0.56 B	0.63 B	0.57 B
COPPER	4.5	5.8	5.9	5.8	5.9	5.7	6.1	5.8
LEAD	1.3 J	1.4 J	1.5 J	1.4 J	1.6 J	1.4 J	1.6 J	1.5 J
MERCURY	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
MOLYBDENUM	1.6 B	1.7 B	2.1 B	1.7 B	1.6 B	1.6 B	1.5 B	1.7 B
NICKEL	1 J	0.77 J	2.8	0.95 J	0.95 J	1 J	1.1 J	0.83 J
SELENIUM	0.45 J	0.35 J	0.58 J	0.9 J	0.61 J	0.5 J	0.51 J	0.32 U
SILVER	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
THALLIUM	0.23 B	0.22 B	0.3 B	0.24 B	0.22 B	0.22 B	0.22 B	0.23 B
TUNGSTEN	0.31 B	0.27 B	0.36 B	0.27 B	0.27 B	0.26 B	0.26 B	0.26 B
VANADIUM	2.5 J	2.6 J	2.5 J	2.7 J	2.7 J	2.7 J	2.8 J	2.6 J
ZINC	6 J	2.8 J	3.6 J	3.6 J	5.4 J	3.2 J	5.5 J	4.2 J
FILTERED METALS (ug/l)								
ANTIMONY	0.31 B	0.35 B	0.34 B	0.35 B	0.34 B	0.33 B	0.32 B	0.34 B
ARSENIC	1.4 J	1.6 J	1.1 J	1.3 J	1.6 J	1.5 J	1.4 J	1.3 J
BARIUM	6.8	7.4	7.6	7.8	7.5	7	7	7.5

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND
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SAMPLE ID:	MSA-SW39C-060811	MSA-SW40A-060811	MSA-SW40B-060811	MSA-SW40C-060811	MSA-SW41A-060811	MSA-SW41B-060811	MSA-SW41C-060811	MSA-SW42A-060811
LABORATORY ID:	240-948-4	240-948-20	240-948-21	240-948-22	240-948-11	240-948-12	240-948-13	240-948-23
SAMPLE DATE:	MSA-SW39C	MSA-SW40A	MSA-SW40B	MSA-SW40C	MSA-SW41A	MSA-SW41B	MSA-SW41C	MSA-SW42A
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
BERYLLIUM	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U
CADMIUM	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U
CHROMIUM	0.72 J	0.41 J	0.31 B	0.36 B	0.39 J	0.34 J	0.42 J	0.35 B
COBALT	0.21 B	0.21 B	0.33 B	0.33 B	0.21 B	0.2 B	0.2 B	0.32 B
COPPER	3	3.8	3.9	4.1	3.9	3.8	3.8	3.9
LEAD	0.29 B	0.3 B	0.31 B	0.31 B	0.3 B	0.3 B	0.3 B	0.3 B
MERCURY	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
MOLYBDENUM	1.6 B	1.6 B	1.9 B	1.8 B	1.7 B	1.6 B	1.5 B	1.8 B
NICKEL	0.94 J	0.75 J	0.68 J	0.78 J	1 J	0.74 J	0.77 J	0.76 J
SELENIUM	0.52 B	0.84 B	0.32 U	0.32 U	0.71 B	0.73 B	0.51 B	0.32 U
SILVER	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
THALLIUM	0.25 B	0.24 B	0.25 B	0.24 B	0.24 B	0.24 B	0.24 B	0.24 B
TUNGSTEN	0.29 B	0.24 B	0.34 B	0.32 B	0.25 B	0.24 B	0.24 B	0.28 B
VANADIUM	1.7 J	1.6 J	1.6 J	1.7 J	1.7 J	1.6 J	1.6 J	1.6 J
ZINC	2 J	0.5 U	0.67 J	0.69 J	0.5 U	0.5 U	0.74 J	0.5 U
MISCELLANEOUS (ug/l)								
HEXAVALENT CHROMIUM	0.047	0.046	0.053	0.051	0.055	0.054	0.051	0.058
PERCHLORATE	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW42B-060811	MSA-SW42C-060811	MSA-SW42C-060811DL	MSA-SW43A-060811	MSA-SW43B-060811	MSA-SW43C-060811	MSA-SW44A-060811	MSA-SW44B-060811
LABORATORY ID:	240-948-24	240-948-25	240-948-25	240-948-17	240-948-18	240-948-19	240-948-8	240-948-9
SAMPLE DATE:	MSA-SW42B	MSA-SW42C	MSA-SW42CDL	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW44A	MSA-SW44B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
VOLATILES (ug/l)								
1,1,1,2-TETRACHLOROETHANE	0.23 U	0.23 U		0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,1-TRICHLOROETHANE	0.22 U	0.22 U		0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-TETRACHLOROETHANE	0.18 U	0.18 U		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U	0.28 U		0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
1,1-DICHLOROETHANE	0.15 U	0.15 U		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,1-DICHLOROETHENE	0.19 U	0.19 U		0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,3-TRICHLOROBENZENE	0.17 U	0.17 U		0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-TRICHLOROPROPANE	0.43 U	0.43 U		0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
1,2,3-TRIMETHYLBENZENE	0.0059 U	0.0059 U		0.0059 U	0.0059 U	0.0059 U	0.0059 U	0.0059 U
1,2,4-TRICHLOROBENZENE	0.15 U	0.15 U		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-TRIMETHYLBENZENE	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U	0.67 U		0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
1,2-DIBROMOETHANE	0.24 U	0.24 U		0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-DICHLOROBENZENE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROETHANE	0.22 U	0.22 U		0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,2-DICHLOROPROPANE	0.18 U	0.18 U		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	0.14 U	0.14 U		0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-DICHLOROPROPANE	0.16 U	0.16 U		0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,4-DICHLOROBENZENE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2,2-DICHLOROPROPANE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
2-BUTANONE	0.57 U	0.57 U		0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
2-CHLOROETHYL VINYL ETHER	0.99 U	0.99 U		0.99 U	0.99 U	0.99 UR	0.99 U	0.99 U
2-CHLOROTOLUENE	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
2-HEXANONE	0.41 U	0.41 U		0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
4-CHLOROTOLUENE	0.18 U	0.18 U		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
4-ISOPROPYLTOLUENE	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
4-METHYL-2-PENTANONE	0.32 U	0.32 U		0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
ACETONE	1.2 J	1.3 J		1.1 U	1.1 J	1.1 U	1.1 U	1.1 U
BENZENE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW42B-060811	MSA-SW42C-060811	MSA-SW42C-060811DL	MSA-SW43A-060811	MSA-SW43B-060811	MSA-SW43C-060811	MSA-SW44A-060811	MSA-SW44B-060811
LABORATORY ID:	240-948-24	240-948-25	240-948-25	240-948-17	240-948-18	240-948-19	240-948-8	240-948-9
SAMPLE DATE:	MSA-SW42B	MSA-SW42C	MSA-SW42CDL	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW44A	MSA-SW44B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
BROMOCHLOROMETHANE	0.29 U	0.29 U		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
BROMODICHLOROMETHANE	0.15 U	0.15 U		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
BROMOFORM	0.64 U	0.64 U		0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
BROMOMETHANE	0.41 U	0.41 U		0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
CARBON DISULFIDE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CARBON TETRACHLORIDE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROBENZENE	0.15 U	0.15 U		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
CHLORODIBROMOMETHANE	0.18 U	0.18 U		0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
CHLOROETHANE	0.29 U	0.29 U		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
CHLOROFORM	0.16 U	0.16 U		0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
CHLOROMETHANE	0.3 U	0.3 U		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
CIS-1,2-DICHLOROETHENE	0.49 J	0.51 J		0.91 J	0.95 J	0.51 J	0.6 J	0.26 J
CIS-1,3-DICHLOROPROPENE	0.14 U	0.14 U		0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
DIBROMOMETHANE	0.28 U	0.28 U		0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DICHLORODIFLUOROMETHANE	0.31 U	0.31 U		0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
DIISOPROPYL ETHER	1.5 U	1.5 U		1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
ETHYL TERT-BUTYL ETHER	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
ETHYLBENZENE	0.17 U	0.17 U		0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
HEXACHLOROBUTADIENE	0.3 U	0.3 U		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
ISOPROPYLBENZENE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
M+P-XYLENES	0.24 U	0.24 U		0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.17 U	0.17 U		0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
METHYLENE CHLORIDE	0.33 U	0.33 U		0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.24 U	0.24 U		0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
N-BUTYLBENZENE	0.12 U	0.12 U		0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
N-PROPYLBENZENE	0.14 U	0.14 U		0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
O-XYLENE	0.14 U	0.14 U		0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
SEC-BUTYLBENZENE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.11 U	0.11 U		0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
TERT-AMYL METHYL ETHER	0.067 U	0.067 U		0.067 U	0.067 U	0.067 U	0.067 U	0.067 U
TERT-BUTYLBENZENE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TERTIARY-BUTYL ALCOHOL	3.9 UR	3.9 UR		3.9 UR	3.9 UR	3.9 UR	3.9 UR	3.9 UR
TETRACHLOROETHENE	0.29 U	0.29 U		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW42B-060811	MSA-SW42C-060811	MSA-SW42C-060811DL	MSA-SW43A-060811	MSA-SW43B-060811	MSA-SW43C-060811	MSA-SW44A-060811	MSA-SW44B-060811
LABORATORY ID:	240-948-24	240-948-25	240-948-25	240-948-17	240-948-18	240-948-19	240-948-8	240-948-9
SAMPLE DATE:	MSA-SW42B	MSA-SW42C	MSA-SW42CDL	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW44A	MSA-SW44B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
TOLUENE	0.13 U	0.13 U		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
TOTAL XYLENES	0.28 U	0.28 U		0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U		0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.19 U	0.19 U		0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
TRICHLOROETHENE	0.66 J	0.7 J		1.3	1.2	0.82 J	0.92 J	0.41 J
TRICHLOROFLUOROMETHANE	0.21 UJ	0.21 UJ		0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
VINYL ACETATE	0.19 UR	0.19 UR		0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.22 U	0.22 U		0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
SEMIVOLATILES (ug/l)								
1,1-BIPHENYL	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
1,4-DIOXANE	0.47 U	0.48 U		0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.38 U	0.39 U		0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
2,4,5-TRICHLOROPHENOL	0.29 U	0.29 U		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
2,4,6-TRICHLOROPHENOL	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
2,4-DICHLOROPHENOL	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
2,4-DIMETHYLPHENOL	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
2,4-DINITROPHENOL	2.3 U	2.3 U		2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
2,4-DINITROTOLUENE	0.26 U	0.26 U		0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
2,6-DINITROTOLUENE	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
2-CHLORONAPHTHALENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
2-CHLOROPHENOL	0.28 U	0.28 U		0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
2-METHYLNAPHTHALENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
2-METHYLPHENOL	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
2-NITROANILINE	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
2-NITROPHENOL	0.27 U	0.27 U		0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
3&4-METHYLPHENOL	0.72 U	0.73 U		0.71 U	0.72 U	0.72 U	0.71 U	0.71 U
3,3'-DICHLOROBENZIDINE	0.36 U	0.36 U		0.35 U	0.36 U	0.36 U	0.35 U	0.35 U
3-NITROANILINE	0.27 U	0.27 U		0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
4,6-DINITRO-2-METHYLPHENOL	2.3 U	2.3 U		2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
4-BROMOPHENYL PHENYL ETHER	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
4-CHLORO-3-METHYLPHENOL	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
4-CHLOROANILINE	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
4-CHLOROPHENYL PHENYL ETHER	0.29 U	0.29 U		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW42B-060811	MSA-SW42C-060811	MSA-SW42C-060811DL	MSA-SW43A-060811	MSA-SW43B-060811	MSA-SW43C-060811	MSA-SW44A-060811	MSA-SW44B-060811
LABORATORY ID:	240-948-24	240-948-25	240-948-25	240-948-17	240-948-18	240-948-19	240-948-8	240-948-9
SAMPLE DATE:	MSA-SW42B	MSA-SW42C	MSA-SW42CDL	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW44A	MSA-SW44B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
4-NITROANILINE	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
4-NITROPHENOL	2.3 U	2.3 U		2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
ACENAPHTHENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
ACENAPHTHYLENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
ACETOPHENONE	0.33 U	0.33 U		0.32 U	0.33 U	0.33 U	0.32 U	0.32 U
ANTHRACENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
ATRAZINE	0.33 U	0.33 U		0.32 U	0.33 U	0.33 U	0.32 U	0.32 U
BENZALDEHYDE	0.37 U	0.38 U		0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
BENZO(A)ANTHRACENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
BENZO(A)PYRENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 UL	0.095 UL
BENZO(B)FLUORANTHENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
BENZO(G,H,I)PERYLENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 UL	0.095 UL
BENZO(K)FLUORANTHENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
BIS(2-CHLOROETHOXY)METHANE	0.31 U	0.31 U		0.3 U	0.31 U	0.31 U	0.3 U	0.3 U
BIS(2-CHLOROETHYL)ETHER	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
BIS(2-ETHYLHEXYL)PHTHALATE	1.1 B		160	0.91 B	1.7 B	1.7 B	0.76 U	0.76 U
BUTYL BENZYL PHTHALATE	4	17		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
CAPROLACTAM	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
CARBAZOLE	0.27 U	0.27 U		0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
CHRYSENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
DIBENZO(A,H)ANTHRACENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 UL	0.095 UL
DIBENZOFURAN	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
DIETHYL PHTHALATE	0.58 U	0.58 U		0.57 U	0.58 U	0.58 U	0.57 U	0.57 U
DIMETHYL PHTHALATE	0.28 U	0.28 U		0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
DI-N-BUTYL PHTHALATE	0.64 U	0.67 J		0.64 U	0.64 U	0.64 U	0.64 U	0.64 U
DI-N-OCTYL PHTHALATE	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 UL	0.76 UL
FLUORANTHENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
FLUORENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
HEXACHLOROBENZENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
HEXACHLOROBUTADIENE	0.26 U	0.26 U		0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
HEXACHLOROCYCLOPENTADIENE	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
HEXACHLOROETHANE	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
INDENO(1,2,3-CD)PYRENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 UL	0.095 UL

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW42B-060811	MSA-SW42C-060811	MSA-SW42C-060811DL	MSA-SW43A-060811	MSA-SW43B-060811	MSA-SW43C-060811	MSA-SW44A-060811	MSA-SW44B-060811
LABORATORY ID:	240-948-24	240-948-25	240-948-25	240-948-17	240-948-18	240-948-19	240-948-8	240-948-9
SAMPLE DATE:	MSA-SW42B	MSA-SW42C	MSA-SW42CDL	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW44A	MSA-SW44B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
ISOPHORONE	0.26 U	0.26 U		0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
NAPHTHALENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
NITROBENZENE	0.038 U	0.039 U		0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
N-NITROSODIMETHYLAMINE	0.3 U	0.3 U		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
N-NITROSO-DI-N-PROPYLAMINE	0.77 U	0.78 U		0.76 U	0.77 U	0.77 U	0.76 U	0.76 U
N-NITROSODIPHENYLAMINE	0.3 U	0.3 U		0.3 U	0.3 U	0.3 U	0.3 U	0.3 U
PENTACHLOROPHENOL	2.3 U	2.3 U		2.3 U	2.3 U	2.3 U	2.3 U	2.3 U
PHENANTHRENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
PHENOL	0.58 U	2		0.57 U	0.58 U	0.58 U	0.57 U	0.57 U
PYRENE	0.096 U	0.097 U		0.095 U	0.096 U	0.096 U	0.095 U	0.095 U
TOTAL METALS (ug/l)								
ANTIMONY	0.29 B	0.28 B		0.27 B	0.27 B	0.29 B	0.31 B	0.27 B
ARSENIC	2 J	1.8 J		1.9 J	1.7 J	1.9 J	2 J	1.9 J
BARIUM	9.3	9.2		9	8.8	9.7	10	9.2
BERYLLIUM	0.092 U	0.092 U		0.092 U	0.092 U	0.092 U	0.092 U	0.092 U
CADMIUM	0.046 U	0.046 U		0.046 U	0.046 U	0.046 U	0.046 U	0.046 U
CHROMIUM	1.3 B	1.2 B		1.3 J	1.1 J	1.5 J	2.1	1.4 J
COBALT	0.58 B	0.58 B		0.66 B	0.57 B	0.72 B	0.92 B	0.69 B
COPPER	6.1	6.1		5.8	5.9	6.7	8.1	6.5
LEAD	1.6 J	1.5 J		1.6 J	1.5 J	1.9 J	2.6 J	1.8 J
MERCURY	0.066 U	0.066 U		0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
MOLYBDENUM	1.7 B	1.6 B		1.5 B	1.5 B	1.6 B	1.6 B	1.5 B
NICKEL	0.94 J	0.96 J		1.1 J	0.89 J	1.1 J	1.5 J	1.2 J
SELENIUM	0.64 J	0.32 U		0.73 J	0.32 U	0.41 J	0.41 J	0.63 J
SILVER	0.014 U	0.014 U		0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
THALLIUM	0.23 B	0.22 B		0.22 B	0.22 B	0.22 B	0.23 B	0.22 B
TUNGSTEN	0.25 B	0.25 B		0.25 B	0.24 B	0.25 B	0.28 B	0.28 B
VANADIUM	2.8 J	2.6 J		2.6 J	2.6 J	2.9 J	3.5 J	3 J
ZINC	3.5 B	4.4 J		3.7 J	4.4 J	5 J	9.3 J	5.5 J
FILTERED METALS (ug/l)								
ANTIMONY	0.33 B	0.32 B		0.33 B	0.34 B	0.32 B	0.32 B	0.32 B
ARSENIC	1.2 J	1.4 J		1.4 J	1.6 J	1.5 J	1.4 J	1.4 J
BARIUM	7.4	7.4		7.2	7.3	7	6.7	6.7

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW42B-060811	MSA-SW42C-060811	MSA-SW42C-060811DL	MSA-SW43A-060811	MSA-SW43B-060811	MSA-SW43C-060811	MSA-SW44A-060811	MSA-SW44B-060811
LABORATORY ID:	240-948-24	240-948-25	240-948-25	240-948-17	240-948-18	240-948-19	240-948-8	240-948-9
SAMPLE DATE:	MSA-SW42B	MSA-SW42C	MSA-SW42CDL	MSA-SW43A	MSA-SW43B	MSA-SW43C	MSA-SW44A	MSA-SW44B
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011	6/8/2011
BERYLLIUM	0.092 U	0.092 U		0.092 U	0.092 U	0.092 U	0.092 U	0.092 U
CADMIUM	0.046 U	0.046 U		0.046 U	0.046 U	0.046 U	0.046 U	0.046 U
CHROMIUM	0.37 B	0.41 B		0.39 J	0.47 J	0.37 J	0.36 J	0.36 J
COBALT	0.32 B	0.32 B		0.19 B	0.2 B	0.2 B	0.2 B	0.2 B
COPPER	3.7	4.1		3.7	3.9	3.7	3.7	3.6
LEAD	0.28 B	0.3 B		0.3 B	0.3 B	0.31 B	0.29 B	0.3 B
MERCURY	0.066 U	0.066 U		0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
MOLYBDENUM	1.7 B	1.6 B		1.5 B	1.5 B	1.6 B	1.5 B	1.6 B
NICKEL	0.71 J	0.75 J		0.79 J	0.94 J	0.74 J	0.71 J	0.75 J
SELENIUM	0.32 U	0.32 U		0.69 B	0.46 B	0.81 B	0.35 B	0.85 B
SILVER	0.014 U	0.014 U		0.014 U	0.014 U	0.014 U	0.014 U	0.014 U
THALLIUM	0.23 B	0.23 B		0.23 B	0.24 B	0.24 B	0.24 B	0.24 B
TUNGSTEN	0.27 B	0.26 B		0.22 B	0.23 B	0.25 B	0.23 B	0.27 B
VANADIUM	1.5 J	1.6 J		1.6 J	1.6 J	1.5 J	1.5 J	1.6 J
ZINC	0.5 U	0.68 J		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
MISCELLANEOUS (ug/l)								
HEXAVALENT CHROMIUM	0.052	0.054		0.05	0.051	0.056	0.052	0.049 L
PERCHLORATE	0.36 U	0.36 U		0.36 U	0.36 U	0.36 U	0.36 U	0.36 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND
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SAMPLE ID:	MSA-SW44C-060811	MSA-SW45A-060811	MSA-SW45B-060811	MSA-SW45C-060811
LABORATORY ID:	240-948-10	240-948-5	240-948-6	240-948-7
SAMPLE DATE:	MSA-SW44C	MSA-SW45A	MSA-SW45B	MSA-SW45C
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011
VOLATILES (ug/l)				
1,1,1,2-TETRACHLOROETHANE	0.23 U	0.23 U	0.23 U	0.23 U
1,1,1-TRICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U
1,1,2,2-TETRACHLOROETHANE	0.18 U	0.18 U	0.18 U	0.18 U
1,1,2-TRICHLOROTRIFLUOROETHANE	0.28 U	0.28 U	0.28 U	0.28 U
1,1-DICHLOROETHANE	0.15 U	0.15 U	0.15 U	0.15 U
1,1-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U
1,1-DICHLOROPROPENE	0.13 U	0.13 U	0.13 U	0.13 U
1,2,3-TRICHLOROBENZENE	0.17 U	0.17 U	0.17 U	0.17 U
1,2,3-TRICHLOROPROPANE	0.43 U	0.43 U	0.43 U	0.43 U
1,2,3-TRIMETHYLBENZENE	0.0059 U	0.0059 U	0.0059 U	0.0059 U
1,2,4-TRICHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U
1,2,4-TRIMETHYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U
1,2-DIBROMO-3-CHLOROPROPANE	0.67 U	0.67 U	0.67 U	0.67 U
1,2-DIBROMOETHANE	0.24 U	0.24 U	0.24 U	0.24 U
1,2-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
1,2-DICHLOROETHANE	0.22 U	0.22 U	0.22 U	0.22 U
1,2-DICHLOROPROPANE	0.18 U	0.18 U	0.18 U	0.18 U
1,3-DICHLOROBENZENE	0.14 U	0.14 U	0.14 U	0.14 U
1,3-DICHLOROPROPANE	0.16 U	0.16 U	0.16 U	0.16 U
1,4-DICHLOROBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
2,2-DICHLOROPROPANE	0.13 U	0.13 U	0.13 U	0.13 U
2-BUTANONE	0.57 U	0.57 U	0.57 U	0.57 U
2-CHLOROETHYL VINYL ETHER	0.99 U	0.99 U	0.99 U	0.99 U
2-CHLOROTOLUENE	0.11 U	0.11 U	0.11 U	0.11 U
2-HEXANONE	0.41 U	0.41 U	0.41 U	0.41 U
4-CHLOROTOLUENE	0.18 U	0.18 U	0.18 U	0.18 U
4-ISOPROPYLTOLUENE	0.12 U	0.12 U	0.12 U	0.12 U
4-METHYL-2-PENTANONE	0.32 U	0.32 U	0.32 U	0.32 U
ACETONE	1.1 U	1.1 U	1.1 U	1.1 U
BENZENE	0.13 U	0.13 U	0.13 U	0.13 U
BROMOBENZENE	0.13 U	0.13 U	0.13 U	0.13 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW44C-060811	MSA-SW45A-060811	MSA-SW45B-060811	MSA-SW45C-060811
LABORATORY ID:	240-948-10	240-948-5	240-948-6	240-948-7
SAMPLE DATE:	MSA-SW44C	MSA-SW45A	MSA-SW45B	MSA-SW45C
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011
BROMOCHLOROMETHANE	0.29 U	0.29 U	0.29 U	0.29 U
BROMODICHLOROMETHANE	0.15 U	0.15 U	0.15 U	0.15 U
BROMOFORM	0.64 U	0.64 U	0.64 U	0.64 U
BROMOMETHANE	0.41 U	0.41 U	0.41 U	0.41 U
CARBON DISULFIDE	0.13 U	0.13 U	0.13 U	0.13 U
CARBON TETRACHLORIDE	0.13 U	0.13 U	0.13 U	0.13 U
CHLOROBENZENE	0.15 U	0.15 U	0.15 U	0.15 U
CHLORODIBROMOMETHANE	0.18 U	0.18 U	0.18 U	0.18 U
CHLOROETHANE	0.29 U	0.29 U	0.29 U	0.29 U
CHLOROFORM	0.16 U	0.16 U	0.16 U	0.16 U
CHLOROMETHANE	0.3 U	0.3 U	0.3 U	0.3 U
CIS-1,2-DICHLOROETHENE	0.28 J	0.17 U	0.17 U	0.17 U
CIS-1,3-DICHLOROPROPENE	0.14 U	0.14 U	0.14 U	0.14 U
DIBROMOMETHANE	0.28 U	0.28 U	0.28 U	0.28 U
DICHLORODIFLUOROMETHANE	0.31 U	0.31 U	0.31 U	0.31 U
DIISOPROPYL ETHER	1.5 U	1.5 U	1.5 U	1.5 U
ETHYL TERT-BUTYL ETHER	0.11 U	0.11 U	0.11 U	0.11 U
ETHYLBENZENE	0.17 U	0.17 U	0.17 U	0.17 U
HEXACHLOROBUTADIENE	0.3 U	0.3 U	0.3 U	0.3 U
ISOPROPYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
M+P-XYLENES	0.24 U	0.24 U	0.24 U	0.24 U
METHYL TERT-BUTYL ETHER	0.17 U	0.17 U	0.17 U	0.17 U
METHYLENE CHLORIDE	0.33 U	0.33 U	0.33 U	0.33 U
NAPHTHALENE	0.24 U	0.24 U	0.24 U	0.24 U
N-BUTYLBENZENE	0.12 U	0.12 U	0.12 U	0.12 U
N-PROPYLBENZENE	0.14 U	0.14 U	0.14 U	0.14 U
O-XYLENE	0.14 U	0.14 U	0.14 U	0.14 U
SEC-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
STYRENE	0.11 U	0.11 U	0.11 U	0.11 U
TERT-AMYL METHYL ETHER	0.067 U	0.067 U	0.067 U	0.067 U
TERT-BUTYLBENZENE	0.13 U	0.13 U	0.13 U	0.13 U
TERTIARY-BUTYL ALCOHOL	3.9 UR	3.9 UR	3.9 UR	3.9 UR
TETRACHLOROETHENE	0.29 U	0.29 U	0.29 U	0.29 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW44C-060811	MSA-SW45A-060811	MSA-SW45B-060811	MSA-SW45C-060811
LABORATORY ID:	240-948-10	240-948-5	240-948-6	240-948-7
SAMPLE DATE:	MSA-SW44C	MSA-SW45A	MSA-SW45B	MSA-SW45C
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011
TOLUENE	0.13 U	0.13 U	0.13 U	0.13 U
TOTAL XYLENES	0.28 U	0.28 U	0.28 U	0.28 U
TRANS-1,2-DICHLOROETHENE	0.19 U	0.19 U	0.19 U	0.19 U
TRANS-1,3-DICHLOROPROPENE	0.19 U	0.19 U	0.19 U	0.19 U
TRICHLOROETHENE	0.37 J	0.28 J	0.24 J	0.24 J
TRICHLOROFLUOROMETHANE	0.21 U	0.21 U	0.21 U	0.21 U
VINYL ACETATE	0.19 U	0.19 U	0.19 U	0.19 U
VINYL CHLORIDE	0.22 U	0.22 U	0.22 U	0.22 U
SEMIVOLATILES (ug/l)				
1,1-BIPHENYL	0.76 U	0.76 U	0.76 U	0.76 U
1,4-DIOXANE	0.47 U	0.47 U	0.47 U	0.47 U
2,2'-OXYBIS(1-CHLOROPROPANE)	0.38 U	0.38 U	0.38 U	0.38 U
2,4,5-TRICHLOROPHENOL	0.29 U	0.29 U	0.29 U	0.29 U
2,4,6-TRICHLOROPHENOL	0.76 U	0.76 U	0.76 U	0.76 U
2,4-DICHLOROPHENOL	0.76 U	0.76 U	0.76 U	0.76 U
2,4-DIMETHYLPHENOL	0.76 U	0.76 U	0.76 U	0.76 U
2,4-DINITROPHENOL	2.3 U	2.3 U	2.3 U	2.3 U
2,4-DINITROTOLUENE	0.26 U	0.26 U	0.26 U	0.26 U
2,6-DINITROTOLUENE	0.76 U	0.76 U	0.76 U	0.76 U
2-CHLORONAPHTHALENE	0.095 U	0.095 U	0.095 U	0.095 U
2-CHLOROPHENOL	0.28 U	0.28 U	0.28 U	0.28 U
2-METHYLNAPHTHALENE	0.095 U	0.095 U	0.095 U	0.095 U
2-METHYLPHENOL	0.76 U	0.76 U	0.76 U	0.76 U
2-NITROANILINE	0.76 U	0.76 U	0.76 U	0.76 U
2-NITROPHENOL	0.27 U	0.27 U	0.27 U	0.27 U
3&4-METHYLPHENOL	0.71 U	0.71 U	0.71 U	0.71 U
3,3'-DICHLOROBENZIDINE	0.35 U	0.35 U	0.35 U	0.35 U
3-NITROANILINE	0.27 U	0.27 U	0.27 U	0.27 U
4,6-DINITRO-2-METHYLPHENOL	2.3 U	2.3 U	2.3 U	2.3 U
4-BROMOPHENYL PHENYL ETHER	0.76 U	0.76 U	0.76 U	0.76 U
4-CHLORO-3-METHYLPHENOL	0.76 U	0.76 U	0.76 U	0.76 U
4-CHLOROANILINE	0.76 U	0.76 U	0.76 U	0.76 U
4-CHLOROPHENYL PHENYL ETHER	0.29 U	0.29 U	0.29 U	0.29 U

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND
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SAMPLE ID:	MSA-SW44C-060811	MSA-SW45A-060811	MSA-SW45B-060811	MSA-SW45C-060811
LABORATORY ID:	240-948-10	240-948-5	240-948-6	240-948-7
SAMPLE DATE:	MSA-SW44C	MSA-SW45A	MSA-SW45B	MSA-SW45C
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011
4-NITROANILINE	0.76 U	0.76 U	0.76 U	0.76 U
4-NITROPHENOL	2.3 U	2.3 U	2.3 U	2.3 U
ACENAPHTHENE	0.095 U	0.095 U	0.095 U	0.095 U
ACENAPHTHYLENE	0.095 U	0.095 U	0.095 U	0.095 U
ACETOPHENONE	0.32 U	0.32 U	0.32 U	0.32 U
ANTHRACENE	0.095 U	0.095 U	0.095 U	0.095 U
ATRAZINE	0.32 U	0.32 U	0.32 U	0.32 U
BENZALDEHYDE	0.37 U	0.37 U	0.37 U	0.37 U
BENZO(A)ANTHRACENE	0.095 U	0.095 U	0.095 U	0.095 U
BENZO(A)PYRENE	0.095 UL	0.095 UL	0.095 UL	0.095 UL
BENZO(B)FLUORANTHENE	0.095 U	0.095 U	0.095 U	0.095 U
BENZO(G,H,I)PERYLENE	0.095 UL	0.095 UL	0.095 UL	0.095 UL
BENZO(K)FLUORANTHENE	0.095 U	0.095 U	0.095 U	0.095 U
BIS(2-CHLOROETHOXY)METHANE	0.3 U	0.3 U	0.3 U	0.3 U
BIS(2-CHLOROETHYL)ETHER	0.095 U	0.095 U	0.095 U	0.095 U
BIS(2-ETHYLHEXYL)PHTHALATE	0.76 U	0.76 U	0.76 U	2
BUTYL BENZYL PHTHALATE	0.76 U	0.76 U	0.76 U	0.76 U
CAPROLACTAM	0.76 U	0.76 U	0.76 U	0.76 U
CARBAZOLE	0.27 U	0.27 U	0.27 U	0.27 U
CHRYSENE	0.095 U	0.095 U	0.095 U	0.095 U
DIBENZO(A,H)ANTHRACENE	0.095 UL	0.095 UL	0.095 UL	0.095 UL
DIBENZOFURAN	0.095 U	0.095 U	0.095 U	0.095 U
DIETHYL PHTHALATE	0.57 U	0.57 U	0.57 U	0.57 U
DIMETHYL PHTHALATE	0.28 U	0.28 U	0.28 U	0.28 U
DI-N-BUTYL PHTHALATE	0.64 U	0.64 U	0.64 U	0.64 U
DI-N-OCTYL PHTHALATE	0.76 UL	0.76 UL	0.76 UL	0.76 UL
FLUORANTHENE	0.095 U	0.095 U	0.095 U	0.095 U
FLUORENE	0.095 U	0.095 U	0.095 U	0.095 U
HEXACHLOROBENZENE	0.095 U	0.095 U	0.095 U	0.095 U
HEXACHLOROBUTADIENE	0.26 U	0.26 U	0.26 U	0.26 U
HEXACHLOROCYCLOPENTADIENE	0.76 U	0.76 U	0.76 U	0.76 U
HEXACHLOROETHANE	0.76 U	0.76 U	0.76 U	0.76 U
INDENO(1,2,3-CD)PYRENE	0.095 UL	0.095 UL	0.095 UL	0.095 UL

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID: / LABORATORY ID: / SAMPLE DATE: / LOCATION:	MSA-SW44C-060811 / 240-948-10 / MSA-SW44C / 6/8/2011	MSA-SW45A-060811 / 240-948-5 / MSA-SW45A / 6/8/2011	MSA-SW45B-060811 / 240-948-6 / MSA-SW45B / 6/8/2011	MSA-SW45C-060811 / 240-948-7 / MSA-SW45C / 6/8/2011
ISOPHORONE	0.26 U	0.26 U	0.26 U	0.26 U
NAPHTHALENE	0.095 U	0.095 U	0.095 U	0.095 U
NITROBENZENE	0.038 U	0.038 U	0.038 U	0.038 U
N-NITROSODIMETHYLAMINE	0.3 U	0.3 U	0.3 U	0.3 U
N-NITROSO-DI-N-PROPYLAMINE	0.76 U	0.76 U	0.76 U	0.76 U
N-NITROSODIPHENYLAMINE	0.3 U	0.3 U	0.3 U	0.3 U
PENTACHLOROPHENOL	2.3 U	2.3 U	2.3 U	2.3 U
PHENANTHRENE	0.095 U	0.095 U	0.095 U	0.095 U
PHENOL	0.57 U	0.57 U	0.57 U	0.57 U
PYRENE	0.095 U	0.095 U	0.095 U	0.095 U
TOTAL METALS (ug/l)				
ANTIMONY	0.28 B	0.29 B	0.28 B	0.27 B
ARSENIC	1.9 J	1.8 J	1.8 J	2 J
BARIUM	9.5	9.7	9.6	9.5
BERYLLIUM	0.092 U	0.092 U	0.092 U	0.092 U
CADMIUM	0.046 U	0.046 U	0.046 U	0.046 U
CHROMIUM	1.3 J	1.5 J	1.4 J	1.4 J
COBALT	0.69 B	0.74 B	0.75 B	0.74 B
COPPER	6.1	6.5	5.9	5.8
LEAD	1.8 J	2 J	1.9 J	1.8 J
MERCURY	0.066 U	0.066 U	0.066 U	0.066 U
MOLYBDENUM	1.7 B	1.6 B	1.6 B	1.6 B
NICKEL	1.2 J	1.3 J	1.3 J	1.3 J
SELENIUM	0.49 J	0.75 J	0.56 J	1 J
SILVER	0.014 U	0.014 U	0.014 U	0.014 U
THALLIUM	0.23 B	0.23 B	0.23 B	0.23 B
TUNGSTEN	0.3 B	0.3 B	0.3 B	0.29 B
VANADIUM	3.1 J	2.7 J	3.1 J	2.8 J
ZINC	5.2 J	6.4 J	6 J	8.4 J
FILTERED METALS (ug/l)				
ANTIMONY	0.32 B	0.31 B	0.31 B	0.32 B
ARSENIC	1.5 J	1.3 J	1.4 J	1.5 J
BARIUM	7.3	6.8	6.7	6.8

TABLE C-1

CHEMICAL RESULTS FOR FROG MORTAR CREEK SURFACE WATER SAMPLES - JUNE 2011
LOCKHEED MARTIN, MARTIN STATE AIRPORT, MIDDLE RIVER, MARYLAND

SAMPLE ID:	MSA-SW44C-060811	MSA-SW45A-060811	MSA-SW45B-060811	MSA-SW45C-060811
LABORATORY ID:	240-948-10	240-948-5	240-948-6	240-948-7
SAMPLE DATE:	MSA-SW44C	MSA-SW45A	MSA-SW45B	MSA-SW45C
LOCATION:	6/8/2011	6/8/2011	6/8/2011	6/8/2011
BERYLLIUM	0.092 U	0.092 U	0.092 U	0.092 U
CADMIUM	0.046 U	0.046 U	0.046 U	0.046 U
CHROMIUM	0.4 J	0.41 J	0.44 J	0.42 J
COBALT	0.2 B	0.2 B	0.2 B	0.2 B
COPPER	3.7	3.4	3.2	3.3
LEAD	0.31 B	0.31 B	0.3 B	0.29 B
MERCURY	0.066 U	0.066 U	0.066 U	0.066 U
MOLYBDENUM	1.6 B	1.5 B	1.5 B	1.5 B
NICKEL	0.84 J	0.8 J	0.69 J	0.85 J
SELENIUM	0.32 U	0.42 B	0.56 B	0.7 B
SILVER	0.014 U	0.014 U	0.014 U	0.014 U
THALLIUM	0.24 B	0.24 B	0.24 B	0.24 B
TUNGSTEN	0.27 B	0.27 B	0.25 B	0.25 B
VANADIUM	1.7 J	1.5 J	1.5 J	1.5 J
ZINC	4.6 J	0.5 U	0.5 U	0.54 J
MISCELLANEOUS (ug/l)				
HEXAVALENT CHROMIUM	0.059 L	0.05 L	0.047 L	0.044 L
PERCHLORATE	0.36 U	0.36 U	0.36 U	0.36 U

U - Not detected at listed detection limit.
UJ - Nondetected value considered to be estimated as a result of technical noncompliance.
UL - Nondetected value considered to be biased low as a result of technical noncompliance.
UR - Nondetected value rejected as a result of technical noncompliance.
B - Laboratory blank contamination.
J - Positive result is considered estimated as a result of technical noncompliance.
L - Positive result is considered to be biased low as a result of technical noncompliance.
k - Positive result is considered to be biased high as a result of technical noncompliance.
ug/L - micrograms per liter.