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April 19, 2016

VIA PRIVATE CARRIER

Mr. James R. Carroll
Program Administrator
Land Restoration Program
Land Management Administration
Maryland Department of the Environment
1800 Washington Boulevard, Suite 625
Baltimore, Maryland 21230

Subject: Transmittal of the UST 2 TCE-Source Remedial Action Summary of MPE System Operation
Lockheed Martin Corporation; Middle River Complex
2323 Eastern Boulevard, Middle River, Baltimore County, Maryland

Dear Mr. Carroll:

Please find enclosed two hard copies with a CD of the above-referenced document. This document presents the results of the multi-phase extraction (MPE) system operated in 2014 and 2015 to recover and treat groundwater with high concentrations of trichloroethene (TCE) in the vicinity of underground storage tank (UST) 2 in Block E at the Middle River Complex. Operation of the MPE system was completed in December 2015. We respectfully request to receive Maryland Department of the Environment's comments by June 2, 2016.

Please let me know if you have any questions. My office phone is (301) 548-2227.

Sincerely,

Lynnette Drake
Remediation Analyst, Environmental Remediation

cc: (via email without enclosure)
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UST 2 TCE-Source Remedial Action
Summary of MPE System Operation
Lockheed Martin Middle River Complex
2323 Eastern Boulevard
Middle River, Maryland

Prepared for:

Lockheed Martin Corporation

Prepared by:

Tetra Tech, Inc.

April 2016



Michael Martin, PG
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ACRONYMS

BOD	biological oxygen demand
COD	chemical oxygen demand
DNAPL	dense non-aqueous-phase liquid
ft^3	cubic feet
gpd	gallon(s) per day
gph	gallon(s) per hour
gpm	gallon(s) per minute
in. Hg	inch(es) of mercury
lb	pound
lbm	pound-mass
lbmol	pound-mole
LGAC	liquid-phase granular-activated -carbon
Lockheed Martin	Lockheed Martin Corporation
mg/L	milligram(s) per liter
MPE	multi-phase extraction
MRC	Middle River Complex
P&ID	piping and instrumentation diagram
PID	photoionization detector
ppm_v	part(s) per million volume
PVC	polyvinyl chloride
SCFM	standard cubic feet per minute
SVE	soil-vapor extraction
TCE	trichloroethene
Tetra Tech	Tetra Tech, Inc.
TKN	total Kjeldahl nitrogen
TPH	total petroleum hydrocarbons
TSS	total suspended solids
UST	underground storage tank
VFD	variable-frequency drive
VGAC	vapor-phase granular-activated -carbon
VOC	volatile organic compound

Section 1
Introduction

Tetra Tech, Inc. (Tetra Tech), on behalf of Lockheed Martin Corporation (Lockheed Martin), installed a multi-phase extraction (MPE) system at the Middle River Complex (MRC) in Middle River, Maryland in August 2014, and operated the system in 2014 and 2015. The system was designed to remove trichloroethene (TCE) mass from the subsurface near the former location of underground storage tank (UST) 2 in Block E of the Middle River Complex. The tank, identified during installation of the *in situ* bioremediation system in Block E, contained high concentrations of trichloroethene. The tank was removed, but subsequent investigations in July and October 2013 indicated that the mass and concentration of trichloroethene in soil and groundwater near the tank would not be efficiently addressed by using *in situ* bioremediation only. Therefore, temporary operation of the multi-phase extraction system was recommended and approved by the Maryland Department of the Environment. This document details the operation of the multi-phase extraction system in 2014 and 2015.

Operation of the MPE system is complete and Lockheed Martin Corporation is planning a groundwater sampling event to identify modifications necessary to the remedial program based on the current TCE plume extents, which may have changed since the *Groundwater Response Action Plan* (Tetra Tech, 2012) was approved. During the groundwater sampling event, samples for analysis of volatile organic compounds (VOC) will be collected from 28 injection wells and 13 monitoring wells. In addition, soil samples for analysis of volatile organic compounds are being collected as part of the Block E Soil Remedial Investigation (Tetra Tech, 2016). These data will provide a sound basis for determining details for effective *in situ* bioremediation. The data obtained from this sampling will also be entered into the groundwater model to determine the mass of trichloroethene in the treatment area of Block E using the same procedures used in the *Response Action Plan*. This trichloroethene mass will be the baseline condition for groundwater remediation in Block E. Based on Section 7.1 of the *Response Action Plan,* the goal for the MRC response action will be to reduce trichloroethene mass in the active remediation areas by 70%, which will be the primary mechanism for determining when the remedial action is complete.

1.1 OVERVIEW OF SYSTEM DESIGN

The multi-phase extraction system at Block E was installed in August 2014. A detailed description of the system layout, process equipment, control system, and interlocks is in the *UST 2 TCE-Source Remedial Action Design-Basis Report* (Tetra Tech, Inc. [Tetra Tech], 2014). The layout of the multi-phase extraction system is shown on Figure 1-1, and the process and instrumentation diagram (P&ID) is shown on Figure 1-2. The extraction system and its key components are described below:

- Four multi-phase extraction wells and one soil-vapor extraction (SVE) well were connected to the equipment compound via temporary aboveground lines. The multi-phase extraction wells were designed to recover both liquid and vapor. The soil-vapor extraction well was designed to recover vapor only.

- Submersible pumps were installed in each extraction well to extract groundwater; each pump was controlled using a submersible pressure-transducer and a variable-frequency drive (VFD).

- Effluent from all well pumps was directed to a shallow-tray air-stripper skid that served as a primary treatment unit to remove volatile organic compounds (VOC).

- Liquid-phase granular-activated-carbon (LGAC) vessels (two 500-pound vessels, in series) were used to treat ("polish") the aqueous effluent from the air stripper.

- Treated groundwater accumulated in two frac tanks and was transported via tanker-trailers to the discharge location on the Lockheed Martin Corporation (Lockheed Martin) property as needed (usually weekly). Treated groundwater was discharged to the sewer manhole on the Lockheed Martin property under a Baltimore County sewer-discharge permit.

- A vacuum pump was applied to the extraction wells to enhance trichloroethene-mass removal.

- Vapor effluent from the air stripper and the vacuum pump was treated in two vapor-phase granular-activated carbon (VGAC) vessels (1,500-pounds each) in series.

- The equipment for the multi-phase extraction system was mounted within a secondary containment area. The control system allowed unattended automatic operation. A remote system-status notification notified the operator of system shutdowns.

1.2 SUMMARY OF OPERATION

The multi-phase extraction system began operation on September 11, 2014. The multi-phase extraction system was shut down for the winter on December 15, 2014, and restarted on March 25, 2015 with final system shut down on November 30, 2015. The total duration of operation was 345 days (95 days in 2014 and 250 days in 2015). The multi-phase extraction system was down

for 56 days due to equipment malfunctions, power interruptions, and other events; overall, system up-time was 84%.

During its operation, the multi-phase extraction system removed 547 pounds of trichloroethene (255 pounds in 2014, and 292 pounds in 2015; see Figure 1-3). Contaminant removal rates increased dramatically when vacuum was added (September 29, 2014), and remained relatively high until early July 2015 (Figure 1-3). The average trichloroethene removal rate was approximately 3.3 pounds per day through July 2015. Trichloroethene removal rates slowly decreased from early July 2015 to the end of system operation (Figure 1-3). The average removal rate during this period (July 2015 to November 2015) was approximately 0.92 pounds per day. Trichloroethene removal rates were approaching 0.5 pounds per day during the last two months of system operation. Overall, trichloroethene removal trends suggest that most of the residual mass near the former tank location was removed, and that most of the remaining trichloroethene mass is in the dissolved phase and/or adsorbed to the soil matrix.

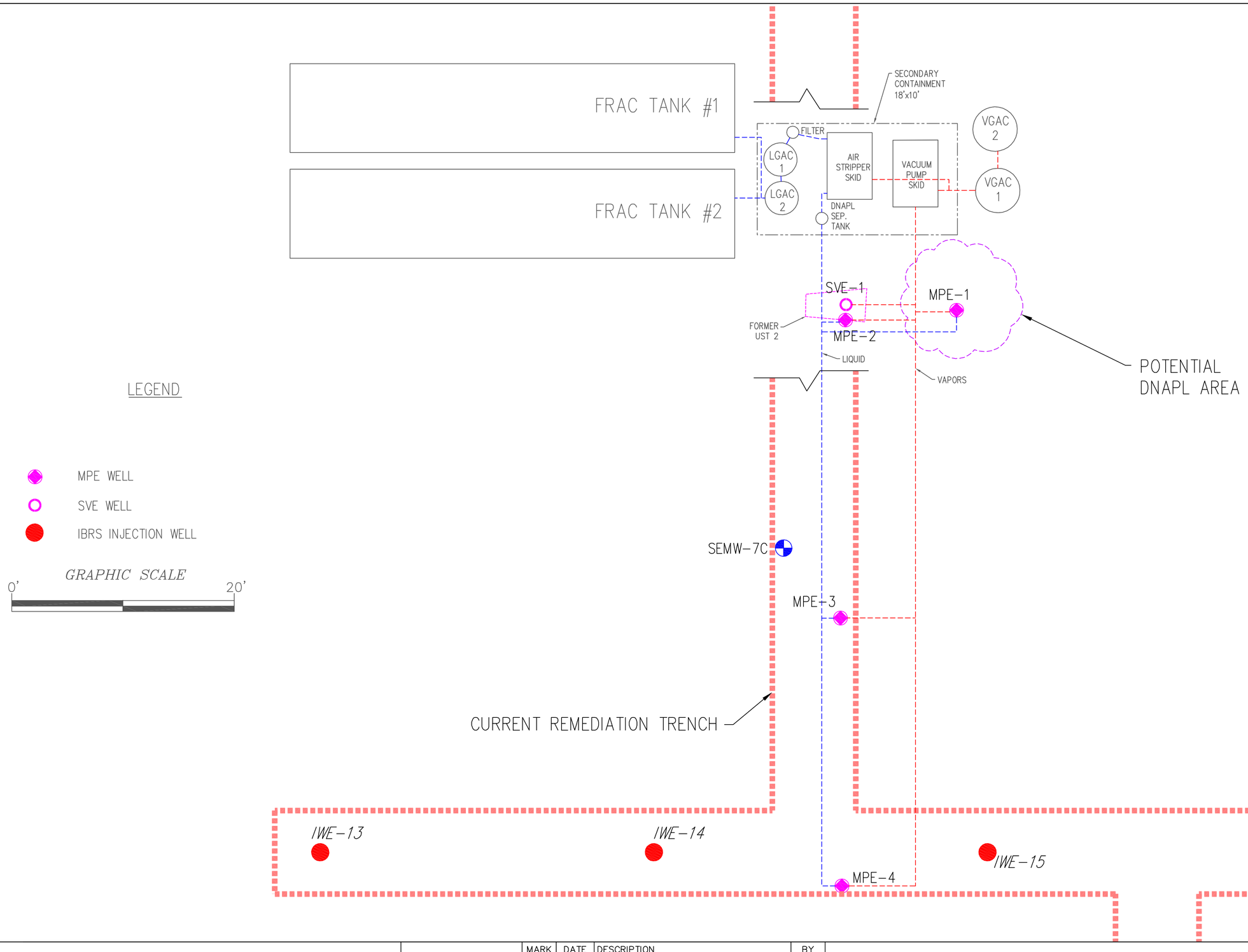
Approximately 1.2 million gallons of groundwater were extracted, treated, and discharged (267,075 gallons in 2014, and 919,057 gallons in 2015, see Figure 1-4). Total groundwater pumping rates were between two and four gallons per minute (gpm), with an average rate of three gallons per minute. Pumping rates for individual wells generally increased as operation of the vacuum continued. Note that only two or three multi-phase extraction wells could be operated simultaneously, to prevent exceeding the sewer discharge limit (maximum 6,000 gallons per day, or 4.16 gallons per minute. Operation therefore alternated between different extraction wells, with the goal of maintaining the maximum trichloroethene recovery while not exceeding the maximum daily-flow limit. Note that, for clarity, the time scale on Figures 1-3 and 1-4 is in operational days, and does not represent calendar time. Therefore, the spring 2015 restart is shown immediately after the system shutdown in fall 2014.

1.3 TREATMENT-TRAIN EFFICIENCY

Treatment and removal of organic vapors from the vapor stream before discharge to the atmosphere by the vapor-phase granular activated-carbon vessels was effective. Organic vapors were not detected at the vapor-phase-effluent stack. Approximately 10,500 pounds (4,500 pounds in 2014, and 6,000 pounds in 2015) of vapor-phase granular activated-carbon were used during system operation, and approximately 547 pounds of volatile organic compounds (calculated as trichloroethene) were treated by the vapor-phase granular-activated-carbon system. This

corresponds to an organic-vapor loading capacity of approximately five percent by weight. Spent vapor-phase granular activated-carbon was removed from the vessels, placed in 55-gallon drums, and disposed of as hazardous waste at the Lockheed Martin-designated facility.

The liquid-phase treatment system also proved effective at treating the contaminants of concern and reliably meeting sewer discharge-permit requirements. In fact, the main contaminants of concern (volatile organics) were never detected in treated groundwater during operation of the multi-phase extraction system. =Due to the positive liquid-phase treatment system results in 2014. Baltimore County simplified the analytical sampling requirements for discharge in 2015, and requested only analysis for volatile organics and pH (i.e., analyses for nonvolatile organics and metals were not required in 2015). The main unit in the liquid-phase treatment is the air stripper. It removed most volatile organic compounds, so that the liquid-phase granular-activated-carbon polishing units received only a negligible load of volatiles. Typically, the influent concentration of volatile organic compounds at the liquid-phase granular activated-carbon ranged from below detection limit to several parts per billion. When operation of the multi-phase extraction system was complete, the liquid-phase granular activated-carbon was removed from the vessels, placed in 55-gallon drums, and disposed of as nonhazardous waste at the Lockheed Martin-designated facility.



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MARK	DATE	DESCRIPTION	BY

MPE SYSTEM LAYOUT
BLOCK E UST 2 MPE SYSTEM OPERATION

LOCKHEED MARTIN CORPORATION
MIDDLE RIVER COMPLEX, MIDDLE RIVER, MARYLAND

DATE:	1/15/16
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FIGURE 1-1

G:\USERS\BORIS.DYNKIN\DOCUMENTS\LMC MRC\MPE SYSTEM PRELIMINARY\MPE OPERATION 2015\FINAL REPORT\FIGURE 1-1.DWG DWM 1/15/16

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LEGEND

- BLOWER/VACUUM PUMP WITH MOTOR
- TRANSFER PUMP WITH MOTOR
- FIELD MOUNTED INSTRUMENT
- PROCESS INDICATOR LIGHT (G/R)
- INTERLOCK
- GROUNDWATER PIPING
- PROCESS VALVE (BALL)
- CHECK VALVE (SPRING)
- FLOW ORIFICE
- PITOT TUBE
- LINE SIZE CHANGE
- MOTOR STARTER (M)
- SOIL VAPORS PIPING
- ANALOG SIGNAL
- ELECTRICAL

ABBREVIATIONS

AS	AIR STRIPPER
TP	AIR STRIPPER TRANSFER PUMP
B	AIR STRIPPER BLOWER
VB	VACUUM BLOWER
MS	MOISTURE SEPARATOR
VGAC	VAPOR PHASE CARBON VESSEL
LGAC	LIQUID PHASE CARBON VESSEL
BF	BAG FILTER
FRT	FRAC TANK
FR	FLOW DIVIDER ORIFICE
DP	SUBMERSIBLE WELL PUMP
VFD	VARIABLE FREQUENCY DRIVE
SPT	SUBMERSIBLE PRESSURE TRANSMITTER
FT	FLOW TOTALIZER (MECHANICAL)
LSHH	HIGH LIQUID LEVEL SWITCH
LPS	LOW PRESSURE SWITCH
HPS	HIGH PRESSURE SWITCH
V	PROCESS VALVE
CV	CHECK VALVE
PG	PRESSURE GAUGE
VG	VACUUM GAUGE
DPT	DIFFERENTIAL PRESSURE GAUGE
LPG	LOW PRESSURE (AIR) GAUGE
PT	PITOT TUBE
TG	TEMPERATURE GAUGE
WSP	GROUNDWATER SAMPLING PORT
VSP	VAPOR SAMPLING PORT
ALR	ALARM
HOA	HAND/AUTO/OFF SWITCH

NOTES

a. GROUNDWATER TREATMENT (AIR STRIPPER SKID AND POLISHING) WITH WILL ONLY BE USED IF SANITARY SEWER DISCHARGE IS APPROVED.

b. LIQUID PHASE CARBON EFFLUENT POLISHING MAY NOT BE REQUIRED DEPENDING ON FINAL DISCHARGE REQUIREMENTS AND ACTUAL AIR STRIPPER EFFLUENT CONCENTRATIONS.

c. ANY ALARM CONDITION LISTED BELOW CAUSES SYSTEM SHUT DOWN (TP–1, B–1, VB–1, DP–101 TO DP–301). OPERATOR INVOLVEMENT IS NEEDED FOR SYSTEM RESTART.

d. ALARM CONDITIONS LIST:

1. AIR STRIPPER FAILURE (ASALR–1)
2. SECONDARY CONTAINMENT HIGH LIQUID LEVEL (SCALR–1)
3. MOISTURE SEPARATOR HIGH LIQUID LEVEL (MSALR–1)
4. FRAC TANK FRT–1 HIGH LIQUID LEVEL (FTALR–1)
5. FRAC TANK FRT–2 HIGH LIQUID LEVEL (FTALR–2)
6. HIGH DISCHARGE PRESSURE (HPALR–1)

d. EACH SUBMERSIBLE WELL PUMP (DP–101 TO DP–301) IS CONFIGURED TO MAINTAIN CHOSEN CONSTANT LIQUID LEVEL SET POINT IN EXTRACTION WELL.

VACUUM BLOWER SKID ALARM

SHUT DOWN VB–1 IF ANY ALARM LISTED BELOW IS TRIGGERED: ASALR 1, FTALR 1, FTALR 2, SCALR 1, HPALR 1

ADL–1 SENDS ALARM NOTIFICATION IF ANY ALARM LISTED BELOW IS TRIGGERED: ASALR 1, VBALR 1, FTALR 1, FTALR 2, SCALR 1, HPALR 1

ALARM NOTIFICATION VIA EMAIL AND TEXT MESSAGE

ADL–1 CELL–BASED AUTO–DIALER

VACUUM BLOWER SKID

HOA VB–1 ON/OFF/AUTO SWITCH

VB–1 VACUUM BLOWER 10 HP, 460 VAC, 3–PHASE, 140 ACFM @ 20"HG.

VC 1, V–12, V–11, LSHH 5, MS–1

4" STEEL

4" CPVC SCH 40

VSP–1

VSP–5, DPG 3, PT–3, TG 3, TREATED AIR DISCHARGE TO ATMOSPHERE

VSP–4, LPG 2, VGAC–1, VGAC–2

VGAC–1, 2: EPOXY–LINED STEEL; 1500 LBS OF GAC; 800 SCFM MAX AIR FLOW

DPG 1, PT–1, TG 1, VSP–3, LPG 1

4" PVC SCH 40

VSP–2

DPG 2, PT–2, TG 2

GROUNDWATER TREATMENT SHOWN WITHIN THIS LINE WILL ONLY BE USED IF SEWER DISCHARGE PERMIT IS GRANTED

SYSTEM SHUTDOWN

AS–1 AIR STRIPPER SKID

AIR STRIPPER ALARM ASALR 1

AS–1 CONTROL PANEL

B–1 ON OFF AUTO SWITCH; B–1 STATUS LIGHT G/R; HOA B–1; TP–1 ON OFF AUTO SWITCH; TP–1 STATUS LIGHT G/R; HIGH SUMP LEVEL ALARM RED; BLOWER LOW PRESSURE ALARM RED

AS–1: SHALLOW TRAY AIR STRIPPER; 6 TRAYS; 304SS MATERIAL; 40 GPM MAX CAPACITY; 150 SCFM AIR FLOW

LPG 3

MIST ELIMINATOR

0.75" PVC SCH 80

V–4 HI

WSP–1

V–3

DST–1

V–2

V–1

FT–1

SUMP HIGH LEVEL ALARM

BLOWER LOW PRESSURE ALARM

LPS 1

LSHH 3

SHUT DOWN B–1 IF ANY ALARM LISTED BELOW IS TRIGGERED: FTALR 1, FTALR 2, SCALR 1, HPALR 1, VBALR 1

LPG 4, M, B–1

B–1 BLOWER, 3 HP, 460 VAC, 3–PHASE, 150 SCFM @ 46"W.C.

SHUT DOWN TP–1 IF ANY ALARM LISTED BELOW IS TRIGGERED: FTALR 1, FTALR 2, SCALR 1, HPALR 1, VBALR 1

TP–1 TRANSFER PUMP 3/4 HP, 460 VAC, 3–PHASE, 10 GPM AT 30 PSI

M, TP–1

DIRECT DISCHARGE TO FRAC TANKS VIA THIS LINE IF GROUNDWATER TREATMENT IS NOT USED

SECONDARY CONTAINMENT ALARM TO SYSTEM SHUTDOWN

SCALR 1, REDUNDANT, LSHH 4, LSHH 4RD

SECONDARY CONTAINMENT PAD

FT–2 HIGH LIQUID LEVEL ALARM TO SYSTEM SHUTDOWN

FTALR 2, LSHH 2

FT–1 HIGH LIQUID LEVEL ALARM TO SYSTEM SHUTDOWN

FTALR 1, LSHH 1

V–10, FR–2, FR–1, V–9

FRT–2 DOUBLE–WALLED FRAC TANK 16,000–GAL

FRT–1 DOUBLE–WALLED FRAC TANK 16,000–GAL

1" FLEXIBLE POLY PIPE

HIGH PRESSURE ALARM TO SYSTEM SHUTDOWN

HPALR 1, HPS 1

LGAC EFFLUENT POLISHING (OPTIONAL)

LGAC–1, 2: WOUND FRP OVER POLY SHELL; 250 LBS OF GAC; 20 GPM CAPACITY

1" PVC SCH 80 PIPING BETWEEN BF–1 AND LGAC–2

PG 1, PG 3, PG 2, PG 4

BF–1 BAG FILTER

BF–1: 150 PSIG HOUSING FOR #2 FILTER BAG; 12–LBS DIRT HOLDING CAPACITY CARTRIDGE

V–5, V–8, V–7, V–6

WSP 4, WSP 3, WSP–2

LGAC–2 500# OF CARBON

LGAC–1 500# OF CARBON

1" PVC SCH 80

SEWER DISCHARGE CONFIGURATION

FRT–4 FRAC TANK 21,000–GAL

FRT–3 FRAC TANK 21,000–GAL

4" VALVE; 4" SCH 40 STEEL NIPPLE; 1" BALL VALVE; 1" STEEL TEE; HOSE ADAPTER; 1" CRUSH–RESISTANT STEEL–REINFORCED DISCHARGE HOSE

DISCHARGE SAMPLING PORT 1/4" VALVE; DSP–1; FLOW TOTALIZER; FT 2; 1" STEEL 90° ELBOW; 1" STEEL PIPE THROUGH MANHOLE COVER

EXISTING SEWER MANHOLE LABELED AS DMH# ON DRAWING C–5

15" SEWER

SHUT DOWN DP–301 IF ANY ALARM LISTED BELOW IS TRIGGERED: ASALR 1, FTALR 1, FTALR 2, SCALR 1, HPALR 1, VBALR 1

VFD–101

VC 101, V–101, 1.25" PVC SCH 40

VSP–101

LIQUID LEVEL SIGNAL FROM SPT–101 IS USED BY VFD–101 TO VARY SPEED OF DP–101 IN ORDER TO MAINTAIN CONSTANT LIQUID LEVEL SET–POINT IN MPE–1

4" SCH 80 PVC

VC 501, V–501, 1.25" PVC SCH 40, VSP–501

4" SCH 40 PVC

SVE–1

SPT 101, DP 101, MPE–1

1/2" SCH 40 PVC CARRIER WITH 2" SCH 40 PVC SECONDARY CONTAINMENT

SHUT DOWN DP–201 IF ANY ALARM LISTED BELOW IS TRIGGERED: VBALR 1, HPALR 1, SCALR 1, FTALR 1, FTALR 2, ASALR 1

VFD–201

VC 201, V–201, 1.25" PVC SCH 40

VSP–201

V–101, PG 101, FT 101, CV–301, WSP–101

V–202, PG 201, FT 201, CV–201, WSP–201

4" SCH 80 PVC

LIQUID LEVEL SIGNAL FROM SPT–201 IS USED BY VFD–201 TO VARY SPEED OF DP–201 IN ORDER TO MAINTAIN CONSTANT LIQUID LEVEL SET–POINT IN MPE–2

DP–101 TO DP–401 SUBMERSIBLE WELL PUMP, 3" SIZE, 1/2 HP, 230 VAC, 1–PHASE

SPT 201, DP 201, MPE–2

0.75" PVC SCH 80

SHUT DOWN DP–301 IF ANY ALARM LISTED BELOW IS TRIGGERED: VBALR 1, HPALR 1, SCALR 1, FTALR 1, FTALR 2, ASALR 1

SOIL VAPOR SOIL 4" PVC SCH 40

V–302, PG 301, FT 301, CV–301, WSP–301

V–401, PG 401, FT 401, CV–401, WSP–401

VFD–301

VC 301, V–301, 1.25" PVC SCH 40

VSP–301

LIQUID LEVEL SIGNAL FROM SPT–301 IS USED BY VFD–301 TO VARY SPEED OF DP–301 IN ORDER TO MAINTAIN CONSTANT LIQUID LEVEL SET–POINT IN MPE–3

4" SCH 80 PVC

SPT 301, DP 301, MPE–3

SHUT DOWN DP–401 IF ANY ALARM LISTED BELOW IS TRIGGERED: FTALR 1, FTALR 2, ASALR 1, VBALR 1, HPALR 1, SCALR 1

VFD–401

VC 401, V–401, 1.25" PVC SCH 40

VSP–401

LIQUID LEVEL SIGNAL FROM SPT–401 IS USED BY VFD–401 TO VARY SPEED OF DP–401 IN ORDER TO MAINTAIN CONSTANT LIQUID LEVEL SET–POINT IN MPE–4

4" SCH 80 PVC

SPT 401, DP 401, MPE–4

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MARK	DATE	DESCRIPTION	BY

MPE SYSTEM P&ID
BLOCK E UST 2 MPE SYSTEM OPERATION

LOCKHEED MARTIN CORPORATION
MIDDLE RIVER COMPLEX, MIDDLE RIVER, MARYLAND

DATE:	1/15/16
PROJECT NO.:	112IC03835
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DRAWN BY:	BD
CHECKED BY:	CP

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FIGURE 1-2

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Figure 1-3. MPE System Operation in 2014/2015 Contaminant Removal Summary

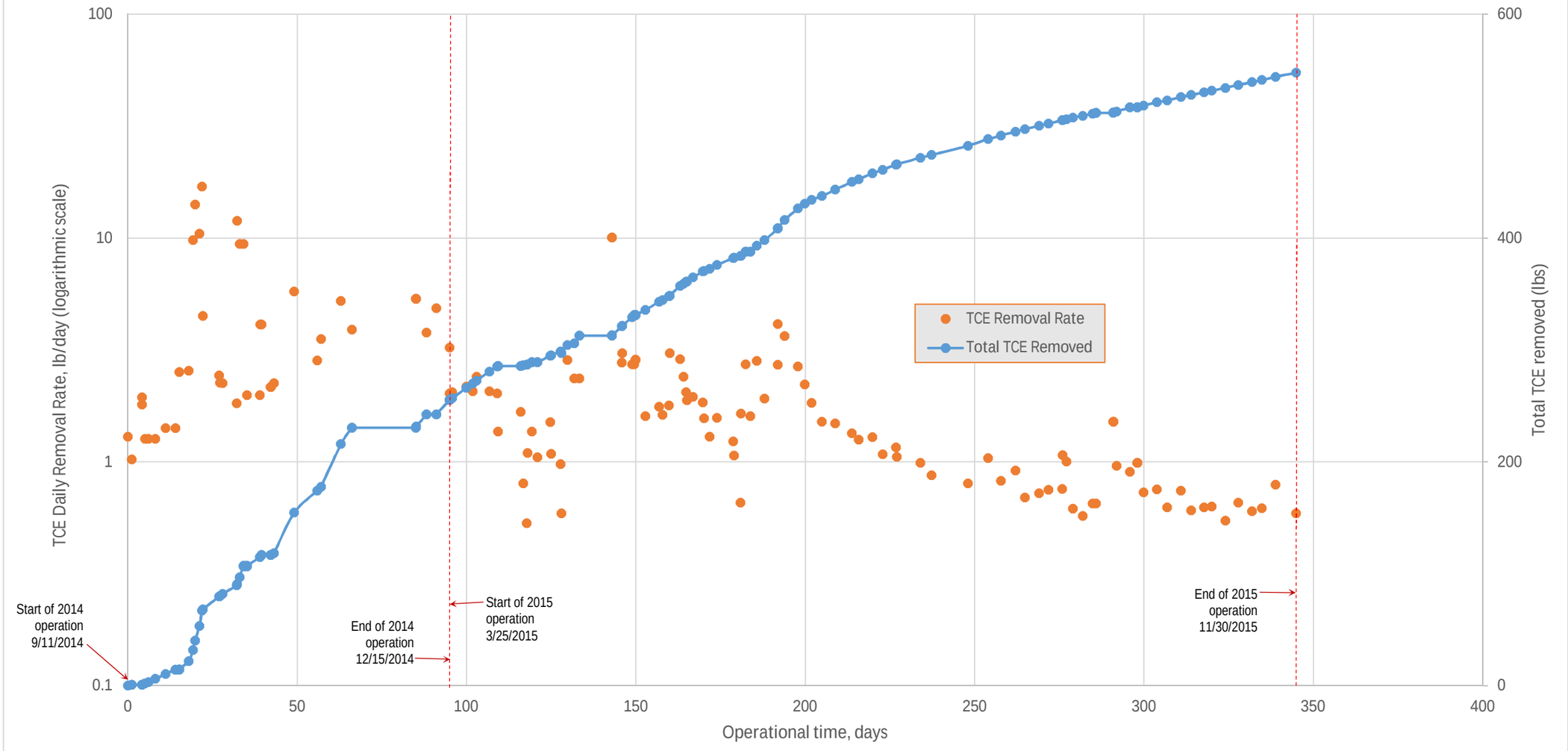

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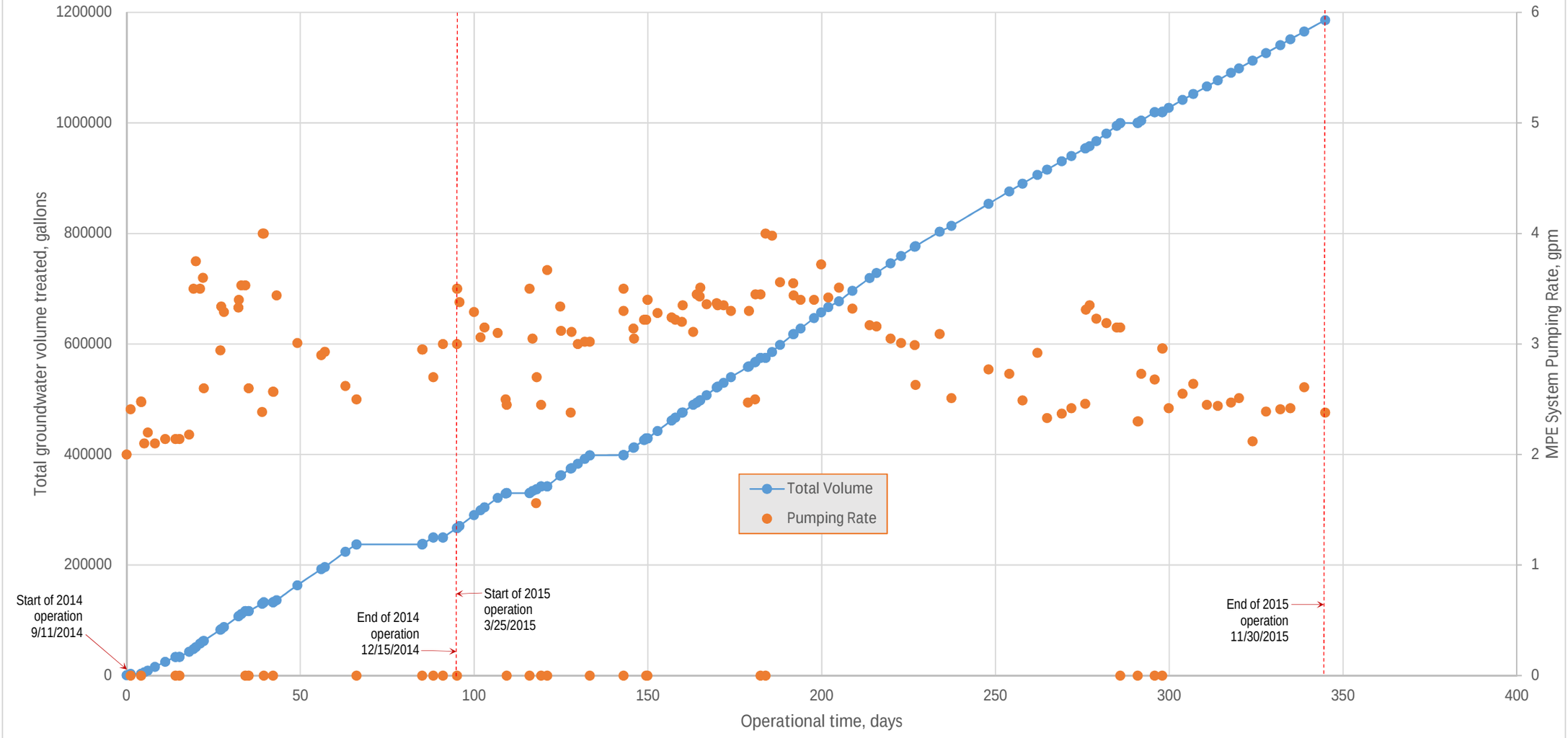
Figure 1-4. MPE System Operation in 2014/2015 Pumping Rates and Flows Summary



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Section 2
Year 2014 Operation

This section summarizes the operation of the multi-phase extraction (MPE) system from startup on September 11, 2014 until December 15, 2014, when the system was shut down for winter. All system equipment remained on site in anticipation of system restart in March 2015. The MPE system operated for 65 days in 2014. It was automatically shut down four times when the liquid-level sensor was activated after rainwater had collected in the secondary containment area. A remote notification was sent to the system operator during each shutdown. At each event, rainwater was pumped from the secondary containment area and treated, and the system was restarted. Rain-related down time for the MPE system was approximately 7.5 days.

The MPE system was shut down between November 16 and December 5 (2014)[1] due to cold temperatures. These weather conditions were anticipated, and a planned shutdown was conducted, including draining the equipment to limit freeze damage. Up time for the 2014 operational period was approximately 71%. If the cold-weather shutdown (19 days) in November/December 2014 is excluded, MPE-system up time was approximately 90%.

2.1 INITIAL OPERATION WITHOUT VACUUM

The MPE system was started on Thursday, September 11, 2014 and shut down for the weekend on Friday, September 12. Continuous system operation began on Monday, September 15 using the four MPE wells (MPE-1 through -4). To achieve steady-state pumping and contaminant-removal conditions, and to prevent sharp spikes in contaminant-inlet concentrations, the MPE system was initially operated without vacuum. During this two-week period, the MPE system operated continuously except for one day (September 25), when rain collected in the secondary containment area, resulting in a high liquid-level alarm that triggered a shutdown.

The speeds of the well pumps were adjusted to maintain a nearly constant liquid level in each well. MPE-1, MPE-3, and MPE-4 were relatively low-yield wells, and the liquid level in each well was

[1]Note that, for clarity, the time scale used on Figures 1-3 and 1-4 is in operational days, and does not represent calendar time. Therefore, the restart is shown immediately after the system shutdown, because it is the first operational day after shutdown.

maintained at approximately three to five feet above the pump's intake. Extraction well MPE-2 returned a considerably higher yield as compared to other wells, so the speed of its pump was adjusted to maintain a liquid level of approximately 15 feet above the pump's intake. Placing the pump at that location resulted in a typical pumping rate of approximately 0.75 gallons per minute (gpm) from MPE-2. One possible reason for the high yield in MPE-2 is that it is hydraulically connected to a nearby gravel-filled trench that collects stormwater runoff.

As shown in Table 2-1, pumping rates for the total system (without vacuum) ranged between 1.85–2.5 gpm, with an estimated contaminant-removal rate generally between 1.3–2 pounds per day (lbs/day). Average individual pumping rates for each of the extraction wells are summarized in Table 2-2 and below:

- MPE-1—0.52 gpm (suspected residual dense-non-aqueous-phase-liquid [DNAPL] area)
- MPE-2—0.81 gpm (former underground storage tank [UST] 2 location)
- MPE-3—0.54 gpm
- MPE-4—0.3 gpm

2.2 CONTINUED OPERATION WITH VACUUM

Vacuum operation began when near steady-state conditions were achieved and contaminant removal rates decreased as compared to the initial values following startup. Operation with vacuum applied to the wells MPE-1, MPE-3, and MPE-4, and to soil-vapor extraction well SVE-1, began on September 29 and ended on December 15, 2014. Approximately 9–10 inches of mercury (in. Hg) vacuum was applied to the MPE wells, and approximately 3 in. Hg of vacuum was applied to SVE-1. High-yield well MPE-2 was not operated under vacuum, as its operation under vacuum would result in a total pumping rate above the sewer discharge limit of 6000 gallons per day (gpd), or 4.17 gpm.

Using the vacuum resulted in a four-fold increase in contaminant removal on September 29 2014, when the vacuum was turned on. Most of this increase can be attributed to the aqueous-phase (air-stripper effluent), with a very low contribution from the actual vapor flow (see Table 2-1).

The actual soil-vapor flow through the formation (shown as vacuum-pump flow in Table 2-1) was very low. Vacuum-pump flow for the entire system ranged between 16–21 standard cubic feet per

minute (SCFM). One possible explanation for this low soil-vapor flow is the low permeability lenses in the upper formation that limits the influx of atmospheric air into the lower formation.

Application of vacuum also increased individual extraction-well yields. As shown in Table 2-2, the average total pumping rate of the three MPE wells under vacuum increased from 1.36 gpm (without vacuum) to 3.3 gpm (under vacuum). The liquid-ring vacuum pump shut down several times due to water in the knockout tank and high-seal water levels. As a result, the contaminant removal rate decreased each time the vacuum pump turned off.

Unusually cold weather in November with below freezing temperatures required the addition of standard automotive antifreeze liquid to the seal-liquid tank in the liquid-ring vacuum pump. An approximately 50/50 blend of antifreeze liquid and water was used. Operation of the liquid-ring vacuum pump with antifreeze proved difficult. The vacuum pump shut down several times due to either high or low liquid-level at the seal. Overall, with antifreeze added, the vacuum pump was operational approximately 50% of the time.

As the vacuum operation continued, the resultant contaminant removal rate (Table 2-1). The contaminant removal rate decreased from 17 lbs/day to 4.4 lbs/day on October 3, 2014, when extraction well MPE-1 was shut down due to equipment malfunction. The removal rate again increased, from 1.8 lbs/day to 11.8 lbs/day, on October 13, 2014, when MPE-1 was restarted. Therefore, most of the mass was probably removed from well MPE-1, and what was being recovered might have been residual DNAPL from the trichloroethene (TCE) at the former tank location. DNAPL droplets were observed on the transparent section of the tubing at well MPE-1.

Contaminant removal rates generally decreased as the MPE system continued to operate. Daily volatile organic compound (VOC) removal rates typically ranged from 4–5.5 lbs/day under vacuum operation, and from approximately 2–4 lbs/day when operating without vacuum (Figure 2-1). Contaminant removal rates generally decreased from peak levels at startup, but fluctuated after events such as the system restart and changes in pumping-well configuration.

Note that the contaminant removal rates in this report have been calculated using vapor concentrations measured in MPE-system effluent using a photoionization detector (PID), while simultaneously collecting MPE system air-flow-rate measurements. These PID-based calculations were validated by comparing them to calculations based on the analytical laboratory data for air-

stripper influent (see discussion in Section 2-5). The following equation was used to calculate the daily contaminant-removal rate:

(Equation 2-1) $$M = \frac{p \times C_v \times 10^{-6} \times Q \times 1440 \left[{}^{min}/_{day} \right] \times MW}{MV}$$

where

- *M* daily contaminant-removal as TCE (lbm/day)
- *p* photo-ionization detector response factor for TCE (0.7)
- C_v effluent-vapor concentration
- *Q* effluent air-flow at standard conditions[2] (ft^3/min)
- *MW* TCE molecular weight (131.4 lbm/lbmol)
- *MV* molar volume at standard conditions[2] (379.48 ft^3/lbmol)

The system was shut down on November 16, 2014 during an unexpected cold-weather period. Liquids were drained from process lines and from the liquid-phase granular-activated-carbon (LGAC) vessels. The system was restarted on December 5, 2014 and was operated until winter shutdown on December 15, 2014.

2.3 PERFORMANCE OF INDIVIDUAL WELLS

During the MPE system start-up, the speed of the well pumps was adjusted to maintain a nearly constant liquid level in the wells. Before the vacuum was applied, wells MPE-1, MPE-3, and MPE-4 were relatively low yield, and the liquid level in each well was maintained at approximately three to five feet above the pump's intake. Extraction well MPE-2 returned a considerably higher yield as compared to other wells, so its pump was adjusted to maintain the liquid level at approximately 15 feet above the pump's intake. This setting resulted in a typical pumping rate of approximately 0.75 gpm for MPE-2. Average individual pumping rates for the initial period of operation without vacuum (September 11–29, 2014) are shown in Table 2-2 and summarized below:

- MPE-1: 0.52 gpm
- MPE-2: 0.81 gpm
- MPE-3: 0.54 gpm

[2]Standard conditions—60°F and 14.696 psi—are assumed.

- MPE-4: 0.3 gpm

Pumping rates for the wells under vacuum increased significantly once the vacuum was applied. Accordingly, the pumping rate at MPE-2 (high-yield well with no vacuum) was reduced to keep the total flow within the facility's discharge-permit level (i.e., 6,000 gpd). Changes in the pumping rates for wells operating with and without vacuum are summarized below:

Well	Yield without vacuum (gpm)	Yield with vacuum (gpm)
MPE-1	0.5	1.0
MPE-2	0.82	0.5 gpm (no vacuum; reduced flow)
MPE-3	0.56	1.25
MPE-4	0.3	0.8

On average, well pumping rates increased approximately 2.3 times when vacuum was applied. This increase in pumping rates was sustained during the entire operating period of the MPE system in 2014. Pumping rates for individual wells and operational details such as which wells were operational at any particular time are listed in Table 2-2.

MPE-system pumping rates and total groundwater recovery for the 2014 operation are shown on Figure 2-2. The pumping rates were between 2–4 gpm, and generally between 3–3.5 gpm. The average MPE-system pumping rate for the entire 2014 operating period (65 days) was 2.85 gpm. Approximately 267,000 gallons of groundwater were extracted, treated, and discharged to the sanitary sewer during operation of the MPE system in 2014 (Figure 2-2 and Table 2-1).

2.4 SAMPLING RESULTS

Analytical samples were collected seven times in 2014, including for sanitary-sewer discharge-permit compliance (three sampling events), and evaluation of the MPE system's performance (four sampling events). Results of these analyses are in Appendix A. A brief summary of these results follows.

2.4.1 Aqueous Influent and Effluent Parameters

Samples of effluent from the liquid-phase treatment system were collected on September 16, September 17, September 26, September 29, October 1, and October 9, 2014. All liquid-phase effluent samples were analyzed for VOCs, but none were detected. Aqueous samples were also

collected from air-stripper influent and effluent on four occasions (September 19, September 26, October 1, and October 9, 2014) in 2014 and analyzed for VOCs. TCE was detected in influent samples during each sampling event: on September 19 (48 milligrams per liter [mg/L]), September 26 (110 mg/L), October 1 (280 mg/L), and October 9 (48 mg/L). However, only trace concentrations of TCE were detected in air-stripper effluent: on September 26 (0.00025 mg/L) and October 1 (0.0045 mg/L). Acetone was detected three times in air-stripper effluent: on September 19 (0.0045 mg/L), September 26 (0.006 mg/L), and October 1 (0.044 mg/L). 2-Butanone was detected once in air-stripper effluent on October 4, 2014 (0.0067 mg/L). Both acetone and 2-butanone might be in the polyvinyl chloride (PVC) cement used during construction of the system.

Samples were collected and analyzed for metals (silver, cadmium, chromium, copper, nickel, lead, zinc, and mercury) from air-stripper influent, air-stripper effluent, and MPE-system effluent on September 19, September 26, and October 9, 2014. All metals were below permitted levels; zinc was the only metal reported above laboratory reporting-limits. The highest zinc concentrations were detected in air-stripper effluent on September 19 (2.4 mg/L) and system effluent on September 26 (4.2 mg/L). All zinc results were well below its sewer-discharge permit level (17.85 mg/L). Detailed results for metals and VOCs are in Appendix A.

2.4.2 Sewer Discharge Sampling

The first sewer-discharge sampling event was on September 29, 2014. In accordance with the sewer-discharge permit-requirements, grab samples were collected from the discharge sampling port at the discharge manhole and analyzed for cyanide, volatile toxic organics, total petroleum hydrocarbons (TPH), and pH. Composite samples (several samples collected over a period of time) were collected for metals and nonvolatile toxic organics.

Sampling results indicated that the sewer discharge limits for all compounds were met within a high margin of safety. Refer to Table 2-3 for a summary of sewer-discharge sampling results. During the first sewer-discharge sampling event, samples were also collected for the parameters that have no discharge limits but do have certain surchargeable limits: total Kjeldahl nitrogen (TKN), phosphorous, biochemical oxygen demand (BOD), chemical oxygen demand (COD), and total suspended solids (TSS). These analytical results indicated that these compounds were well below the surchargeable limits (Table 2-3).

The second sewer-discharge sampling event was on October 30, 2014. In accordance with the sewer-discharge permit-requirements, grab samples (collected from the discharge sampling port) were collected only for volatile toxic organics and pH. No volatile toxic organics were detected and pH level was within the permit level (Table 2-3). Sewer-discharge limits were met.

The third and final sewer-discharge sampling event was on December 3, 2014. In accordance with the sewer-discharge permit-requirements, grab samples (collected from the discharge sampling port) were collected for cyanide, volatile toxic organics, TPH, and pH. Composite samples (several samples collected over a period of time) were collected for metals and nonvolatile toxic organics. The analytical sampling results indicated that the sewer-discharge limits for all compounds were met with a very high margin of safety. Refer to Table 2-3 for a summary of sewer-discharge sampling results.

During the third sewer-discharge sampling event, samples were also collected for the parameters that have no discharge limits but do have certain surchargeable limits (i.e., TKN, phosphorous, BOD, COD, and TSS). The analytical results indicated that these compounds were well below the surchargeable limits (Table 2-3). The results of the sewer-discharge compliance sampling were reported to the Baltimore County Department of Public Works, as required by the permit (Appendix B**).**

2.4.3 Vapor-Stream VOCs

Analytical samples for VOCs were collected on September 19, 2014 from the vapor-stream carbon-system at the VGAC-1 influent, at the VGAC-1 effluent (midstream), and at the VGAC-2 effluent (discharge). The only compound detected above the laboratory reporting-limit was TCE, in VGAC-1 influent (8.1 parts per million by volume [ppm_v]). Vinyl chloride was also detected at estimated (lab qualifier) levels below its laboratory reporting limit (1 ppm_v) in VGAC-1 influent (0.22 ppm_v), midstream (0.16 ppm_v), and effluent (0.14 ppm_v) samples.

2.5 AIR-STRIPPER PERFORMANCE ANALYSES

The concentration of aqueous-phase TCE at the air-stripper inlet was calculated (Table 2-1) to estimate influent concentrations and potential DNAPL-influx into the MPE system using the air-stripper influent-air-stream vapor concentrations measured during regular site visits. This calculation assumes that the entire vapor stream consists of TCE, and that all dissolved TCE is

transferred into the vapor phase by air stripping. The following equation was used to calculate aqueous-phase TCE concentrations at the air-stripper inlet (results are in Table 2-1).

(Equation 2-2) $$C_a = \frac{10^6 \times M}{q \times 1440 \left[{}^{min}/_{day}\right] \times \rho_w}$$

where

- C_a aqueous-phase TCE at the air-stripper inlet (mg/L)
- M daily contaminant-removal as TCE (lb/day), as calculated from Equation 2-1
- q MPE-system pumping rate (gpm)
- ρ_w water density (8.327 lb/gallon)

The calculated concentration of aqueous-phase contaminant (i.e., TCE) in air-stripper influent remained high throughout MPE system operation in 2014. Without the vacuum applied to the extraction wells, the calculated TCE concentrations in air-stripper influent ranged from 48-102 mg/L (Table 2-1). Under vacuum operation and with extraction well MPE-1 running, the calculated TCE concentration in air-stripper influent ranged from 231–410 mg/L (Table 2-1). These high TCE levels in 2014 are likely associated with the residual DNAPL in the area.

Calculation of the air-stripper-influent contaminant-concentration is based on several assumptions and therefore subject to error. To validate this calculation and its assumptions, the calculated contaminant concentrations were compared to the actual analytical results of air-stripper-influent samples. This comparison, summarized in Table 2-4, shows that the calculated values are relatively close to actual analytical results, with an average deviation of 11%. The observed randomness in the direction of the deviation is further indication that the estimate generated by the calculation is scientifically acceptable and unbiased. Thus, this calculation was used for the MPE-system operation analyses. A comparison of the analytical results for air-stripper influent and effluent samples also suggests that the MPE system is highly efficient (at least 99.999%) in removing TCE from the aqueous stream (Table 2-4). Thus, VOC loading on the system's LGAC vessels was negligible.

Table 2-1

Year 2014 MPE System Operation Summary,
Lockheed Martin Middle River Complex
Middle River, Maryland

Date	Total Pumped (gallons)	MPE System Pumping Rate (gpm)	A/S Effluent Vapor PID reading (PPMv)	A/S Air Flow (SCFM)	A/S Contaminant Removal Rate (calculated) (lbs/day)	A/S Cumulative Contaminant Removal (calculated) (lbs)	A/S influent aqueous concentration (calculated) (mg/L)	Vacuum Pump Flow (SCFM)	Vacuum Pump Vapor PID reading (PPMv)	Vacuum Pump Contaminant Removal Rate (calculated) (lbs/day)	Vacuum Pump Cumulative Contaminant Removal (calculated) (lbs)	Total System Contaminant Removal Rate (calculated) (lbs/day)	Total System Cumulative Contaminant Removal (calculated) (lbs)	VGAC-1 Effluent Vapor PID reading (PPMv)	VGAC-2 Effluent Vapor PID reading (PPMv)
9/11/14 10:00	675	2.00	24	155	1.3	0.3	54	0	0	0	0	1.3	0.3	0.0	0.0
9/12/14 13:59	2865	2.41	19	155	1.0	1.0	36	0	0	0	0	1.0	1.0	0.0	0.0
9/12/14 14:00	2865	0.00	0	0	0.0	1.0	0	0	0	0	0	0.0	1.0	0.0	0.0
9/15/14 14:00	2865	0.00	0	0	0.0	1.0	0	0	0	0	0	0.0	1.0	0.0	0.0
9/15/14 14:00	2865	2.48	36	155	1.9	1.0	65	0	0	0	0	1.9	1.0	0.0	0.0
9/15/14 16:00	3162	2.48	33.3	155	1.8	1.1	61	0	0	0	0	1.8	1.1	0.0	0.0
9/16/14 11:30	5789	2.10	23.4	155	1.3	2.2	50	0	0	0	0	1.3	2.2	0.0	0.0
9/17/14 12:40	9128	2.20	23.4	155	1.3	3.5	48	0	0	0	0	1.3	3.5	0.0	0.0
9/19/14 13:45	15619	2.10	23.4	155	1.3	6.3	50	0	0	0	0	1.3	6.3	0.0	0.0
9/22/14 12:45	24922	2.14	26.2	155	1.4	10.5	55	0	0	0	0	1.4	10.5	0.0	0.0
9/25/14 10:50	33776	2.14	26.2	155	1.4	14.6	55	0	0	0	0	1.4	14.6	0.0	0.0
9/25/14 10:51	33776	0.00	0	0	0.0	14.6	0	0	0	0	0	0.0	14.6	0.0	0.0
9/26/14 15:00	33776	0.00	0	0	0.0	14.6	0	0	0	0	0	0.0	14.6	0.0	0.0
9/26/14 15:00	34159	2.14	46.6	155	2.5	14.9	98	0	0	0	0	2.5	14.9	0.0	0.0
9/29/14 10:00	43103	2.18	47.2	155	2.6	22.2	98	0	0	0	0	2.6	22.2	0.0	0.0
9/30/14 16:00	48164	3.50	185	150	9.7	31.9	231	21	13	0.10	0	9.8	31.9	0.0	0.0
10/1/14 7:30	51429	3.75	260	155	14.1	40.4	313	16	11	0.06	0.04	14.1	40.5	0.0	0.0
10/2/14 13:20	57745	3.50	192	155	10.4	53.4	248	16	9.4	0.05	0.11	10.4	53.5	0.0	0.0
10/3/14 8:55	61930	3.60	313	155	16.9	67.1	392	16	11.0	0.06	0.16	17.0	67.3	0.0	0.0
10/3/14 14:30	62790	2.60	82	155	4.4	68.1	142	16	11.0	0.06	0.17	4.5	68.3	0.0	0.0
10/8/14 9:40	83099	2.94	45	155	2.4	79.8	69	0	0.0	0.00	0.17	2.4	80.0	0.0	0.0
10/8/14 15:00	84116	3.34	41	155	2.2	80.3	55	16	7.4	0.04	0.18	2.3	80.4	0.0	0.0
10/9/14 9:30	87769	3.29	40	155	2.2	81.9	55	16	15.8	0.09	0.25	2.3	82.2	0.0	0.0
10/13/14 14:30	107385	3.33	33	155	1.8	89.2	45	16	7.0	0.04	0.41	1.8	89.7	7.0	0.0
10/13/14 17:00	107932	3.40	220	155	11.9	90.6	292	16	8.0	0.04	0.42	11.9	91.0	8.0	0.0
10/14/14 10:15	111261	3.53	173	155	9.4	96.7	221	16	11.0	0.06	0.46	9.4	97.2	11.0	0.0
10/15/14 13:23	116733	3.53	173	155	9.4	106.8	221	16	11.0	0.06	0.53	9.4	107.3	11.0	0.0
10/15/14 13:24	116733	0.00	0	0	0.0	106.8	0	0	0	0.00	0	0.0	106.8	0.0	0.0
10/16/14 13:30	116733	0.00	0	0	0.0	106.8	0	0	0	0.00	0	0.0	106.8	0.0	0.0
10/16/14 13:30	116733	2.60	36.7	155	2.0	106.8	64	0	0.0	0.00	0.53	2.0	107.3	23.8	0.0
10/20/14 10:00	129994	2.39	36.7	155	2.0	114.4	69	0	0.0	0.00	0.53	2.0	115.0	23.8	0.0
10/20/14 13:35	130706	4.00	74.6	155	4.0	114.9	84	20	10.4	0.07	0.54	4.1	115.5	28.4	0.0
10/20/14 21:40	132549	4.00	74.6	155	4.0	116.2	84	20	10.4	0.07	0.57	4.1	116.8		
10/20/14 21:41	132549	0.00	0	0	0.0	116.2	0	0	0.0	0.00	0.57	0.0	116.8	0.0	0.0
10/23/14 12:30	132549	0.00	0	0	0.0	116.2	0	0	0.0	0.00	0.57	0.0	116.8	0.0	0.0
10/23/14 12:31	132549	2.57	40	155	2.2	116.2	70	0	0.0	0.00	0.57	2.2	116.8		

Table 2-1

Year 2014 MPE System Operation Summary,
Lockheed Martin Middle River Complex
Middle River, Maryland

Date	Total Pumped (gallons)	MPE System Pumping Rate (gpm)	A/S Effluent Vapor PID reading (PPMv)	A/S Air Flow (SCFM)	A/S Contaminant Removal Rate (calculated) (lbs/day)	A/S Cumulative Contaminant Removal (calculated) (lbs)	A/S influent aqueous concentration (calculated) (mg/L)	Vacuum Pump Flow (SCFM)	Vacuum Pump Vapor PID reading (PPMv)	Vacuum Pump Contaminant Removal Rate (calculated) (lbs/day)	Vacuum Pump Cumulative Contaminant Removal (calculated) (lbs)	Total System Contaminant Removal Rate (calculated) (lbs/day)	Total System Cumulative Contaminant Removal (calculated) (lbs)	VGAC-1 Effluent Vapor PID reading (PPMv)	VGAC-2 Effluent Vapor PID reading (PPMv)
10/23/14 15:25	133011	2.57	40	155	2.2	116.5	70	0	0.0	0.00	0.57	2.2	117.1	29.7	0.0
10/24/14 13:20	136290	3.44	41.5	153	2.2	118.0	54	18	5.1	0.03	0.60	2.2	118.6	29.7	0.0
10/30/14 13:30	163529	3.01	106	155	5.7	154.0	159	16	5.0	0.03	0.76	5.8	154.8	96.1	0.0
11/6/14 9:50	192444	2.90	52	155	2.8	173.5	81	16	5.0	0.03	0.96	2.8	174.4	95.9	0.0
11/7/14 10:40	196469	2.93	65	155	3.5	176.8	100	16	5.0	0.03	0.98	3.5	177.8	86.9	0.0
11/13/14 8:45	224101	2.62	94.1	155	5.1	214.1	162	16	27.5	0.15	1.90	5.2	216.0	86.9	0.0
11/16/14 13:00	237481	2.50	70	155	3.8	228.2	126	16	20.0	0.11	2.25	3.9	230.5	86.9	0.0
11/16/14 13:01	237481	0.00	0	0	0.0	228.2	0	0	0.0	0.00	2.25	0.0	230.5	0.0	0.0
12/5/14 11:00	237481	0.00	0	0	0.0	228.2	0	0	0.0	0.00	2.25	0.0	230.5	0.0	0.0
12/5/14 11:01	237481	2.95	96.6	155	5.2	228.2	148	16	22.0	0.12	2.25	5.3	230.5	86.9	0.0
12/5/14 14:29	238461	2.95	96.6	155	5.2	229.4	148	16	22.0	0.12	2.27	5.3	231.7	86.9	0.0
12/8/14 15:30	249907	2.70	70	155	3.8	240.3	117	0	0.0	0.00	2.27	3.8	242.6	80.0	0.0
12/8/14 15:31	249907	0.00	0	0	0.0	240.3	0	0	0.0	0.00	2.27	0.0	242.6	0.0	0.0
12/11/14 11:00	249907	0.00	0	0	0.0	240.3	0	0	0.0	0.00	2.27	0.0	242.6	0.0	0.0
12/11/14 11:01	249907	3.00	90	155	4.9	240.3	135	0	0.0	0.00	2.27	4.9	242.6	0.0	0.0
12/15/14 11:00	267075	3.00	60	155	3.2	253.2	90	0	0.0	0.00	2.27	3.2	255.5	0.0	0.0
12/15/14 11:01	267075	0.00	0	0	0.0	253.2	0	0	0.0	0.00	2.27	0.0	255.5	0.0	0.0

Notes

gpm	gallons per minute
A/S	air stripper
PID	photo-ionozation detector
PPMv	parts per million by volume
SCFM	standard cubic feet per minute
VGAC	vapor-phase granular activated carbon
mg/L	milligrams per liter

Table 2-2

Year 2014 Indivdual MPE Wells Information
Lockheed Martin Middle River Complex
Middle River, MD

Date	System Total		MPE-1		MPE-2		MPE-3		MPE-4		Vacuum Applied	Comments
	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)		
9/11/14 10:00	675	2.00	0	0.50	0	0.75	0	0.50	0	0.25	No	
9/12/14 13:59	2865	2.41	654	0.43	940	1.23	789	0.48	482	0.27	No	
9/12/14 14:00	2865	0.00	654	0.00	940	0.00	789	0.00	482	0.00	No	Shut down for weekend at 14pm
9/15/14 14:00	2865	2.48	654	0.43	940	1.23	789	0.48	482	0.27	No	Re-started at 14pm
9/15/14 16:00	3162	2.48	745	0.43	988	1.23	890	0.48	539	0.27	No	
9/16/14 11:30	5789	2.10	1323	0.51	1992	0.80	1519	0.54	855	0.27	No	
9/17/14 12:40	9128	2.20	2151	0.5	3276	0.80	2375	0.60	1325	0.30	No	
9/19/14 13:45	15619	2.10	3729	0.5	5724	0.80	3964	0.50	2202	0.30	No	
9/22/14 12:45	24922	2.14	6004	0.5	9215	0.80	6248	0.54	3455	0.30	No	
9/25/14 10:50	33776	2.14	8143	0.50	12501	0.80	8456	0.54	4677	0.30	No	
9/25/14 10:51	33776	0.00	8143	0.00	12501	0.00	8456	0.00	4677	0.00	No	Rain event shut down at 10:50am
9/26/14 15:00	34159	2.14	8143	0.50	12501	0.80	8456	0.54	4677	0.30	No	Re-started at 15pm
9/29/14 10:00	43103	2.18	10302	0.5	16063	0.82	10779	0.56	5959	0.30	No	
9/30/14 16:00	48164	3.50	11802	1	17276	0.50	12142	1.25	6944	0.80	Yes	
10/1/14 7:30	51429	3.75	12723	1.08	17703	0.49	14307	1.30	7696	0.89	Yes	
10/2/14 13:20	57745	3.50	14545	0.87	18480	0.50	15526	1.27	9195	0.87	Yes	
10/3/14 8:55	61930	3.60	15589	0.87	19043	0.49	17063	1.35	10235	0.90	Yes	
10/3/14 14:30	62790	2.60	15793	0	19160	0.49	17386	1.35	10451	0.90	Yes	MPE-1 off at 1 pm
10/8/14 9:40	83099	2.94	15793	0	24425	0.55	26455	1.40	16427	1.00	No	
10/8/14 15:00	84116	3.34	15793	0	24614	0.65	26902	1.60	16711	1.10	Yes	
10/9/14 9:30	87769	3.29	15793	0	25277	0.59	25277	1.61	25277	1.06	Yes	
10/13/14 14:30	107385	3.33	15793	0	29160	0.62	37642	1.50	24790	1.20	Yes	
10/13/14 17:00	107932	3.40	15888	0.9	29214	0.00	37865	1.40	24964	1.10	Yes	MPE-1 on and MPE-2 off at 4 pm

Table 2-2

Year 2014 Indivdual MPE Wells Information
Lockheed Martin Middle River Complex
Middle River, MD

Date	System Total		MPE-1		MPE-2		MPE-3		MPE-4		Vacuum Applied	Comments
	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)		
10/14/14 10:15	111261	3.53	17295	1	29214	0.00	39343	1.43	25409	1.11	Yes	
10/15/14 13:23	116733	3.53	18845	1	29214	0.00	41560	1.43	27130	1.11	Yes	
10/15/14 13:24	116733	0.00	18845	0	29214	0.00	41560	0.00	27130	0.00	MPE off	Rain event shut down at 10:50am
10/16/14 13:30	116733	2.60	18845	0	29214	0.00	41560	0.00	27130	0.00	No	Re-started at 13:30 pm
10/20/14 10:00	129994	2.39	22240	0.61	29214	0.00	47406	1.05	31134	0.72	No	
10/20/14 13:35	130706	4.00	21829	1.05	29324	0.41	47654	1.38	31898	1.15	No	
10/20/14 21:40	132549	4.00	22350	1.05	29424	0.41	48319	1.38	32455	1.15	Yes	
10/20/14 21:41	132549	0.00	22350	0	29424	0.00	48319	0.00	32455	0.00	MPE off	Rain event shut down at 9:41pm
10/23/14 12:30	132549	0.00	22350	0	29424	0.00	48319	0.00	32455	0.00	MPE off	
10/23/14 12:31	132549	2.57	22350	0.69	29424	0.00	48319	1.01	32455	0.86	No	Re-started at 12:31pm
10/23/14 15:25	133011	2.57	22475	0.69	29424	0.00	48501	1.01	32610	0.86	No	
10/24/14 13:20	136290	3.44	24006	1.17	29519	0.67	49943	1.60	32821	0.00	Yes	MPE-4 off
10/30/14 13:30	163529	3.01	33590	1.17	34227	0.67	62891	1.60	32821	0.00	Yes	
11/6/14 9:50	192444	3.01	42039	0.82	39253	0.50	78331	1.58	32821	0.00	Yes	
11/7/14 10:40	196469	2.93	43085	0.83	40093	0.50	80470	1.60	32821	0.00	Yes	
11/13/14 8:45	224101	2.62	53139	0.45	44422	0.53	93719	1.64	32821	0.00	Yes	
11/16/14 13:00	237481	2.50	55963	0.51	46701	0.61	101996	1.55	32821	0.00	Yes	
11/16/14 13:01	237481	0.00	55963	0.00	46701	0.00	101996	0.00	32821	0.00	MPE off	System off and drained due to cold
12/5/14 11:00	237481	0.00	55963	0.00	46701	0.00	101996	0.00	32821	0.00	MPE off	Re-started with MPE-1, 3, and 4
12/5/14 11:01	237481	2.95	55963	0.00	46701	0.00	101996	0.00	32821	0.00	Yes	
12/5/14 14:29	238461	2.95	56296	0.57	46701	0.00	102341	1.60	33123	0.78	Yes	
12/8/14 15:30	249907	2.70	57753	0.55	46701	0.00	109044	1.55	36409	0.75	No	
12/8/14 15:31	249907	0.00	57753	0.00	46701	0.00	109044	0.00	36409	0.00	MPE off	Rain event shut down

Table 2-2

Year 2014 Indivdual MPE Wells Information
Lockheed Martin Middle River Complex
Middle River, MD

Date	System Total		MPE-1		MPE-2		MPE-3		MPE-4		Vacuum Applied	Comments
	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)		
12/11/14 11:00	249907	0.00	57753	0.00	46701	0.00	109044	0.00	36409	0.00	MPE off	
12/11/14 11:01	249907	3.00	57753	0.53	46701	0.00	109044	1.49	36409	0.77	No	Re-started with MPE-1, 3, and 4
12/15/14 11:00	267075	3.00	61618	0.57	46701	0.00	117683	1.50	41074	0.81	No	
12/15/14 11:01	267075	0.00	61618	0.00	46701	0.00	117683	0.00	41074	0.00	MPE off	Shut down for 2014 season

Notes
gpm gallons per minute

Table 2-3

Sewer Discharge Sampling Results
Lockheed Martin Middle River Complex
Middle River, MD

Parameter	Sample type	9/29/2014 Sampling Event					10/30/2014 Sampling Event					12/30/2014 Sampling Event					Sewer Discharge Permit Limit		Surchargeable Limit	
		Result	Unit	RL	MDL	Qualifier	Result	Unit	RL	MDL	Qualifier	Result	Unit	RL	MDL	Qualifier	Value	Unit	Value	Unit
Cadmium	Composite	0.14	ug/L	5	0.14	U	NS	NA	NA	NA	NA	0.14	ug/L	5	0.14	U	0.21	mg/L	NA	NA
Chromium	Composite	0.55	ug/L	10	0.55	U	NS	NA	NA	NA	NA	0.55	ug/L	10	0.55	U	6.89	mg/L	NA	NA
Copper	Composite	1.9	ug/L	25	1.9	U	NS	NA	NA	NA	NA	1.9	ug/L	25	1.9	U	6.59	mg/L	NA	NA
Cyanide	Grab	0.002	mg/L	0.01	0.002	U	NS	NA	NA	NA	NA	0.002	mg/L	0.01	0.002	U	1.9	mg/L	NA	NA
Lead	Composite	7.9	ug/L	10	1.9	J	NS	NA	NA	NA	NA	1.9	ug/L	10	1.9	U	6.81	mg/L	NA	NA
Mercury	Composite	0.09	ug/L	0.2	0.09	U	NS	NA	NA	NA	NA	0.09	ug/L	0.2	0.09	U	0.01	mg/L	NA	NA
Nickel	Composite	0.76	ug/L	40	0.76	U	NS	NA	NA	NA	NA	37	ug/L	40	0.76	J	2.82	mg/L	NA	NA
Silver	Composite	0.92	ug/L	10	0.92	U	NS	NA	NA	NA	NA	1.2	ug/L	10	0.92	J	1.2	mg/L	NA	NA
Zinc	Composite	15	ug/L	50	9.6	J	NS	NA	NA	NA	NA	93	ug/L	50	9.6		17.85	mg/L	NA	NA
TTO (Volatile Organic Portion)	Grab	ND	ug/L	varies	varies	U	ND	ug/L	varies	varies	U	0.76	ug/L	1.0	0.23	J	2.13	mg/L	NA	NA
TTO (Non-Volatile Organic Fraction)	Composite	0.069	ug/L	0.049	0.014	J	NS	NA	NA	NA	NA	1.94	ug/L	10	Varies	J	2.13	mg/L	NA	NA
TPH	Grab	1.1	mg/L	9.6	1.1	U	NS	NA	NA	NA	NA	1.1	mg/L	9.6	1.1	U	100	mg/L	NA	NA
pH	Grab	8.05	SU				7.28	SU				7.32	SU				6 to 10	SU	NA	NA
COD	Composite	5.5	mg/L	10	5.1	J	NS	NA	NA	NA	NA	5.2	mg/L	10	5.1	J	NA	NA	NEL	NA
BOD	Composite	2	mg/L	2	2	U	NS	NA	NA	NA	NA	2.0	mg/L	2	2	U	NA	NA	300	mg/L
TKN	Composite	2	mg/L	5	2	J	NS	NA	NA	NA	NA	1.7	mg/L	5	1.7	J	NA	NA	30	mg/L
TSS	Composite	1.8	mg/L	4	1.8	U	NS	NA	NA	NA	NA	1.8	mg/L	4	1.8	U	NA	NA	300	mg/L
Phosphorous	Composite	0.067	mg/L	0.1	0.05	U	NS	NA	NA	NA	NA	0.05	mg/L	0.1	0.05	U	NA	NA	12	mg/L

BOD	biological oxygen demand
COD	chemical oxygen demand
MDL	method detection limit
ug/L	micrograms per liter
mg/L	milligrams per liter
NA	not applicable
ND	not detected
NEL	no established limit
NS	not sampled
RL	reporting limit
SU	standard units
TKN	total Kjeldahl nitrogen
TPH	total petroleum hydrocarbons
TSS	total suspended solids
iTTO	DEFINE
U	not detected

Table 2-4

Air Stripper Influent TCE: Calculation Versus Analytical Sampling
Lockheed Martin Middle River Complex
Middle River, MD

Sampling date	TCE air stripper Influent Analytical Sampling Results (ug/L)	TCE air stripper Influent Calculated Value (ug/L)	% Deviation of Calculated versus Analytical results	TCE Air Stripper Effluent Analytical Resuts (ug/L)	Air Stripper TCE removal Efficiency (ug/L)
9/19/2014	48,000	51,000	6%	<0.15	99.9997%
9/26/2014	110,000	99,000	10%	0.25	99.9998%
10/1/2014	280,000	259,000	8%	1.5	99.9995%
10/9/2014	48,000	57,000	19%	<0.15	99.9997%
		Average	11%		

All concentrations are in micrograms per liter (ug/L).
TCE - trichloroethene

Figure 2-1. Contaminant Removal Rates and Totals for 2014
LMC MRC Block E MPE System Operation

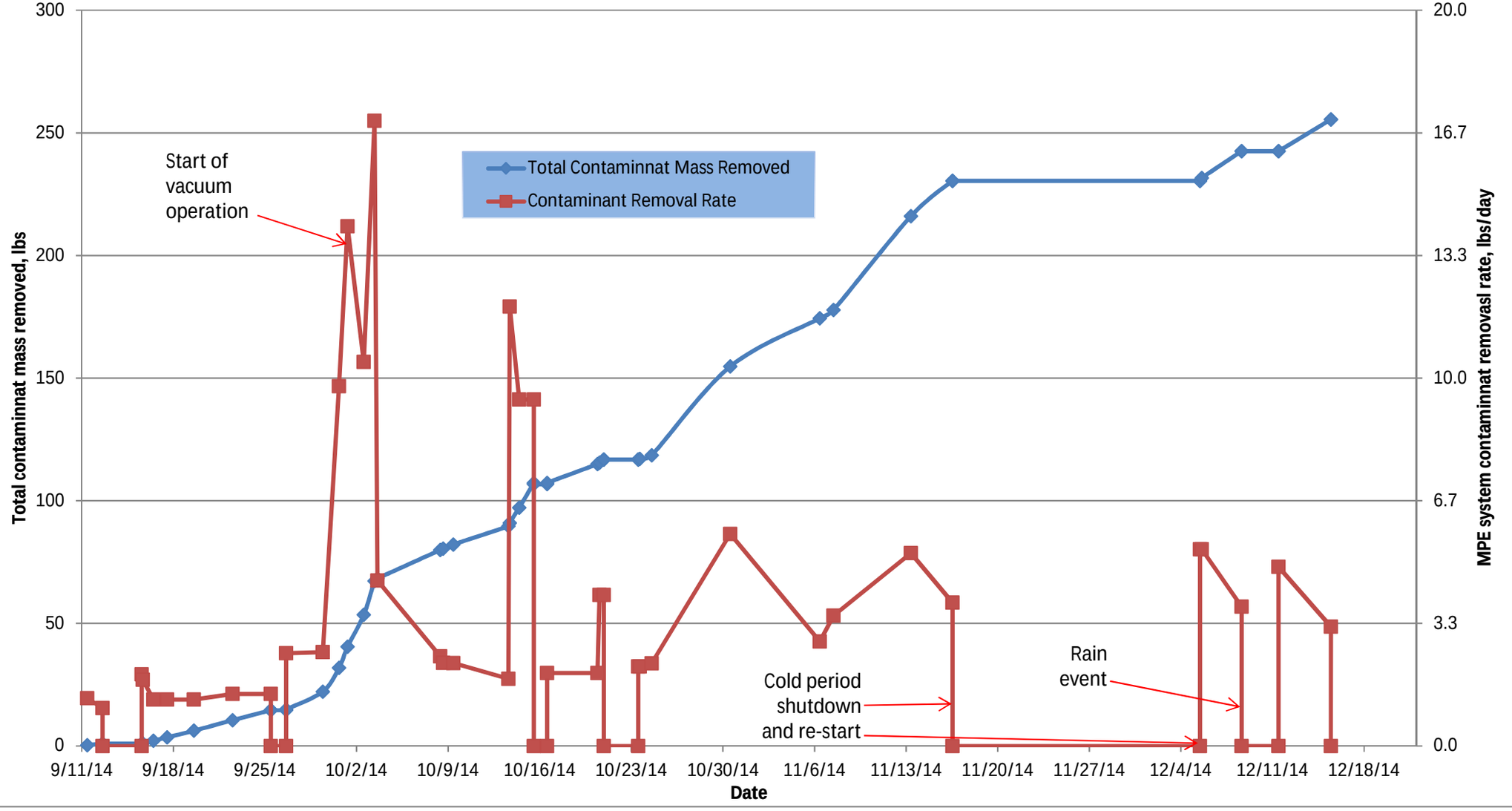
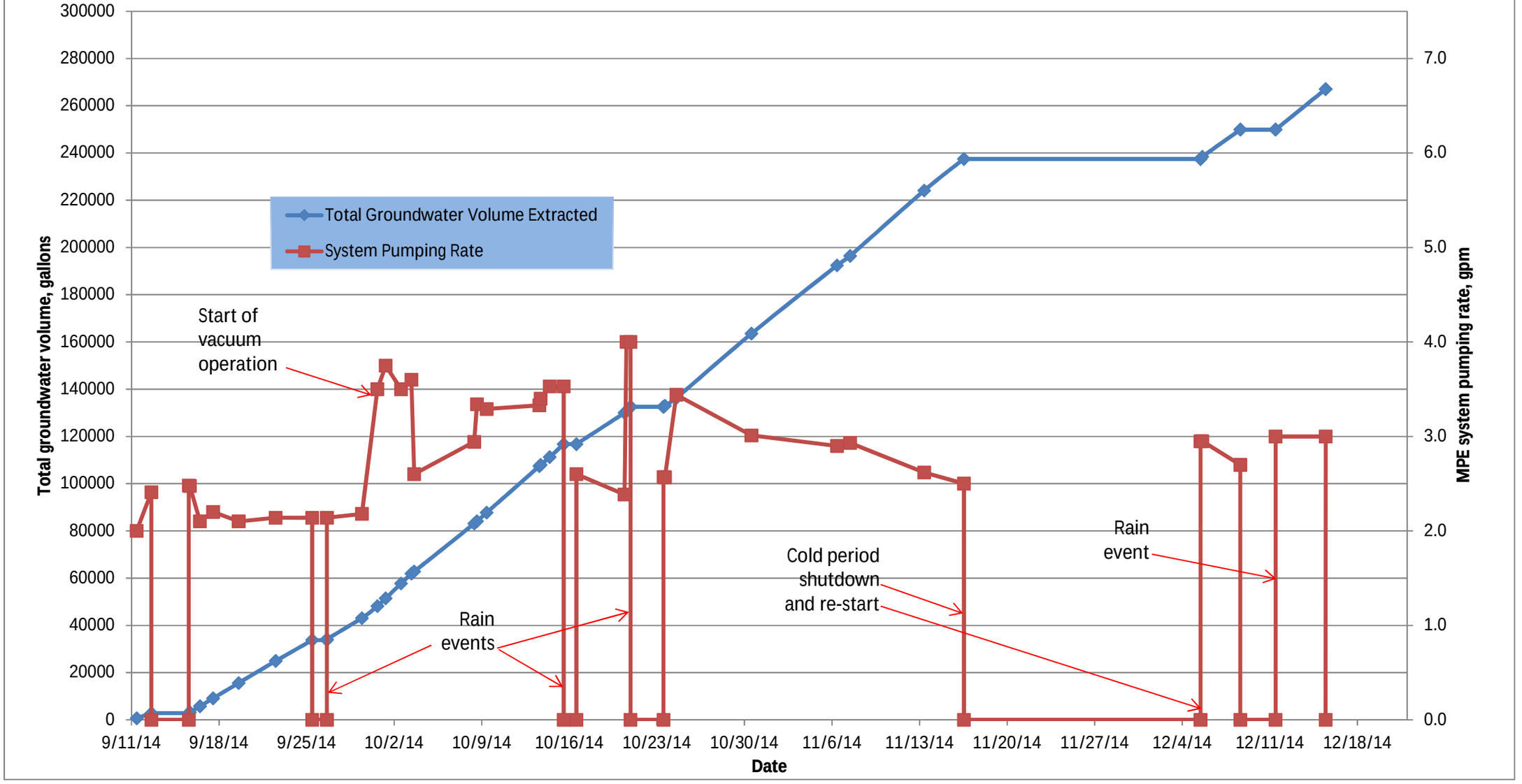


Figure 2-2. Pumping Rates and Flows for 2014
LMC MRC Block E MPE System Operation



Section 3
Year 2015 Operation

This section summarizes multi-phase-extraction (MPE) system operation in 2015, from its (re)startup on March 25, 2015 until shutdown on November 30, 2015. The system had been shut down for winter on December 15, 2014, and all system equipment had remained on site until the system was restarted in March 2015. The MPE system layout, with the locations of the extraction wells and the MPE system equipment, is shown on Figure 1-1. Refer to the *UST 2 TCE-Source Remedial Action Design-Basis Report* (Tetra Tech, Inc. [Tetra Tech], 2014) for details of the MPE system (e.g., equipment specifications, calculations, and design drawings).

3.1 GENERAL SEQUENCE OF OPERATIONS

Continuous system operation began again on March 25, 2015, with all five wells operating (MPE-1 through -4 and SVE-1). To achieve steady-state conditions and prevent sharp spikes in inlet contaminant-concentrations, the MPE system was initially operated without vacuum for approximately four weeks. The pumping rate of the MPE system ranged between 1.56-3.5 gallons per minute (gpm), and the estimated contaminant-removal rate was approximately 1–2 pounds per day (lbs/day). Operation during this initial period was continuous except for two shutdowns in response to high liquid levels in the secondary containment area due to rain on April 8 and 15 (2015). See Table 3-1 and Figure 3-1 for details.

Vacuum operation began when near-steady-state pumping and contaminant-removal rates were achieved and contaminant-removal rates had decreased compared to the initial values following startup. Vacuum was applied to the wells on April 27, 2015, and continued until system shutdown. Vacuum was applied to extraction wells MPE-1, MPE-3, and MPE-4[3], and to soil-vapor extraction well SVE-1. The wellhead vacuum ranged from 10–15 inches of mercury (in. Hg) for the MPE wells, and approximately 3 in. Hg for soil-vapor extraction well SVE-1. Application of vacuum resulted in an approximately 50% increase in contaminant removal. Approximately 919,000 gallons

[3]High yield well MPE-2 was not operated under vacuum because it would increase the pumping rate of the MPE system to a level well above the sewer discharge limit (6000 gallons per day, or 4.17 gpm).

of groundwater were recovered during MPE-system operation in 2015. The average pumping rate for the MPE system was 2.9 gpm (both with and without the vacuum applied).

As shown in Table 3-1, soil-vapor flow (shown in the table as vacuum-pump flow) through the formation continued to be very low. Vacuum-pump flow ranged between 10–14 standard cubic feet per minute (SCFM). The liquid-ring vacuum pump ran consistently, but was shut down twice for short periods (one day) due to a high liquid level in the seal water-tank.

The MPE system was operational for 223 days (approximately 89% up-time) in 2015. The system was automatically shut down six times due to heavy rain (Figure 3-1); rainwater collected in the secondary containment area and high water activated the liquid-level sensor. Rainwater was pumped out, treated, and the system was restarted. The system was also shut down for 10 days May 2-12, 2015) when the air-stripper blower failed and had to be replaced. The system was also shut down once due to a power outage. A remote notification was sent to alert the system operator during each shutdown. MPE-system operation was discontinued on November 30, 2015, when the contaminant-recovery rate approached asymptotic [4] behavior, ranging mostly between 0.5-0.7 lb/day. These decreased recovery rates occurred during the last 45 days of system operation, averaging approximately 0.66 lbs/day during that period.

3.2 PERFORMANCE OF INDIVIDUAL WELLS

The speed of the well pumps was adjusted to maintain a nearly constant liquid level in the wells. The liquid level in wells MPE-1, MPE-3, and MPE-4 was maintained at approximately 3–5 feet above the pump's intake, similar to adjustments made in 2014. Likewise, extraction well MPE-2 returned a considerably higher yield compared to other wells, and was therefore not operated at maximum capacity, to avoid exceeding the total maximum daily-discharge permit-limit (6000 gallons per day or 4.16 gpm). The high yield at MPE-2 might be due to its hydraulic connection to a nearby gravel-filled trench that collects stormwater runoff. Representative pumping rates for individual wells (without vacuum) were as follows:

- MPE-1—0.5 gpm (suspected residual dense-non-aqueous-phase-liquid [DNAPL] area)
- MPE-2—1 gpm (former underground storage tank [UST] 2 location)
- MPE-3—1 gpm
- MPE-4—0.75 gpm

[4] A line on a graph that draws increasingly nearer to a curve without ever meeting it.

These pumping rates were considerably higher as compared to the rates observed at the beginning of MPE-system operation in 2014 (Tetra Tech, 2015). Pumping rates gradually increased as the 2015 operation progressed. A likely reason for this is the gradual development of the pumping wells and removal of fine particles, especially under vacuum conditions. Representative pumping rates for the individual wells during the last three months of system operation are shown in Table 3-2 and summarized below:

- MPE-1—1.25 gpm (with ~14in. Hg vacuum)
- MPE-2—2.5 gpm (no vacuum, full flow)
- MPE-3—1.4 gpm (with ~14in. Hg vacuum)
- MPE-4—1.7 gpm (with ~14in. Hg vacuum)

3.3 CONTAMINANT REMOVAL TRENDS

In general, applying vacuum to the MPE system increased contaminant removal approximately 1.5 times, but, in comparison to operations in 2014, the increase in contaminant removal was not nearly as pronounced in 2015 (Tetra Tech, 2015). We suspect that most of the residual DNAPL mass was reduced by MPE-system operation in 2014. Therefore, applying the vacuum in 2015 did not cause the same jump in the contaminant removal rate as it did in 2014. As in 2014, almost all of the contaminant mass came from the aqueous-phase (via air-stripper vapor effluent), with a very low contribution from the actual vapor flow (see Table 3-1).

Contaminant removal rates in 2015 decreased as compared to 2014 rates (Table 3-1). Applying vacuum moderately increased contaminant-removal rates, as compared to 2014. The highest trichloroethene (TCE) removal rate (10 lbs/day) occurred on May 12, 2015, when the system was restarted after a 10-day shutdown (due to a failed air-stripper blower and the time to replace it). This high removal rate was probably due to a string of DNAPL being pulled into the system. However, after only three days of operation (May 12-15, 2015), the TCE-removal rate declined to approximately 3 lbs/day.

The extraction wells' yields gradually increased in 2015. The maximum daily flow under the sewer discharge permit was 6,000 gallons per day. This limitation prevented all extraction wells from being operated simultaneously under vacuum. Their operation therefore alternated between different extraction wells, with the goal of maintaining the maximum TCE recovery while not exceeding the maximum daily-flow limit. To maximize recovery, the contributions of individual MPE wells to TCE recovery were tested on June 17 (by analytical sampling), July 24, and September 22. The

results of these tests are summarized in Table 3-3. These test results led to focusing the MPE system on those wells with the highest TCE-recovery potential. The operation was switched from one group of extraction wells to another when the TCE removal rates declined or leveled off. The following different modes of operation were used in 2015:

- 3/25 to 4/27: MPE-1, MPE-2, MPE-3, and MPE-4 operated without vacuum
- 4/27 to 5/12: MPE-1 and SVE-1 under vacuum, MPE-2 and MPE-3 without vacuum, MPE-4 off
- 5/12 to 5/29: MPE-1 and SVE-1 under vacuum, MPE-2 without vacuum, MPE-3 and MPE-4 off
- 5/29 to 6/26: MPE-1, MPE-2, MPE-3, and SVE-1 under vacuum, MPE-2 off
- 6/26 to 7/24: MPE-1, MPE-4, and SVE-1 under vacuum, MPE-3 without vacuum, MPE-2 off
- 7/24 to 10/12: MPE-1, MPE-3, and SVE-1 under vacuum, MPE-2 and MPE-4 off
- 10/12 to 11/30:MPE-1, MPE-4, and SVE-1 under vacuum, MPE-2 and MPE-3 off

Overall, TCE removal rates are comparable for all modes of operation, generally remaining between 0.6–2.5 lbs of TCE per day. The final period of operation between July 13 and November 30 resulted in a smooth decline of the mass-removal rate from 1.6 to approximately 0.55 lbs/day, as shown on Figure 3-3.

The air-stripper-influent aqueous-phase contaminant-concentration (Table 3-1) was calculated (Equation 2-2 in Section 2-5) to estimate the system-influent contaminant concentrations. The calculated air-stripper-influent aqueous-phase contaminant (TCE) concentration remained moderately high over the course of system operation. The calculated air-stripper-influent TCE concentration ranged from 14–264 mg/L (Table 3-1), with an average of 45.4 mg/L and median value at 36.6 mg/L. The highest value (264 mg/L) was calculated for May 12, 2015, when the system was restarted after a 10-day pause (the air-stripper blower had to be replaced). This high concentration event was short lived and probably caused by a string of DNAPL passing through the system. Towards the end of MPE-system operation (mid-July to November), the calculated air-stripper-influent TCE-values were decreasing. For this period, the calculated air-stripper-influent TCE-concentration ranged from 13–53 mg/L (Table 3-1), with a median value of 23 mg/L. During the last 4.5 months of 2015 MPE-system operation (mid-July to November), the

contaminant-removal rate generally followed a declining trend, as shown on Figure 3-3. The contaminant-removal rate during this period was typically at or below 1 lb/day.

MPE-system operation was discontinued on November 30, 2015 when the contaminant-recovery rate approached asymptotic behavior (Figures 3-1 and 3-3), and removal rates had decreased to 0.5-0.7 lb/day for 45 consecutive days. The average removal rate during the last days of operation was 0.66 lbs/day. Direct observations of DNAPL (such as droplets and stringers in the transparent inlet-piping) were not found during the 2015 operation. Overall, contaminant-removal trends suggest that by the end of MPE-system operation, most residual DNAPL had been removed by the MPE system, and the remaining TCE is mainly associated with adsorbed and dissolved phases.

3.4 SEWER DISCHARGE SAMPLING AND REPORTING

Samples were collected monthly at the point of discharge in accordance with sewer-discharge permit requirements. Nine sampling events were conducted in 2015 (April 2, May 7, June 10, July 15, August 14, September 14, October 15, November 17, and December 3). As required, grab samples collected from the discharge sampling port were analyzed for toxic volatile organic compounds and for pH. Analytical sampling results indicate that all sewer-discharge limits were met with a high margin of safety. Toxic volatile organics were not detected in any sample. Appendix C contains the analytical laboratory reports. Sewer-discharge compliance-sampling results and flow-volume records were submitted to the Baltimore County Department of Public Works, as required by the permit. (Three “Industrial-User Monitoring Reports” were submitted in 2015; see Appendix B).

Table 3-1

Year 2015 MPE System Operation summary
lockheed Martin Middle River Complex
Middle River, MD

Date	Total Pumped (gallons)	MPE System Pumping Rate (gpm)	A/S Effluent Vapor PID reading (PPMv)	A/S Air Flow (SCFM)	A/S Contaminant Removal Rate (calculated) (lbs/day)	A/S Cumulative Contaminant Removal (calculated) (lbs)	A/S influent aqueous concentration (calculated) (mg/L)	Vacuum Pump Flow (SCFM)	Vacuum Pump Vapor PID reading (PPMv)	Vacuum Pump Contaminant Removal Rate (calculated) (lbs/day)	Vacuum Pump Cumulative Contaminant Removal (calculated) (lbs)	Total System Contaminant Removal Rate (calculated) (lbs/day)	Total System Cumulative Contaminant Removal (calculated) (lbs)	VGAC-1 Effluent Vapor PID reading (PPMv)	VGAC-2 Effluent Vapor PID reading (PPMv)
3/25/15 15:00	0	3.50	36	161	2.0	0.0	48	0	0	0.00	0.0	2.0	0.0	0.0	0.0
3/25/15 17:30	703	3.50	36	161	2.0	0.3	48	0	0	0	0	2.0	0.3	0.0	0.0
3/26/15 9:05	3801	3.38	36.5	161	2.1	1.6	51	0	0	0	0	2.1	1.6	0.0	0.0
3/30/15 12:00	23259	3.29	38.7	161	2.2	10.5	55	0	0	0	0	2.2	10.5	0.0	0.0
4/1/15 9:45	32159	3.06	36.3	163	2.1	14.7	56	0	0	0	0	2.1	14.7	0.0	0.0
4/2/15 12:55	37247	3.15	42.8	161	2.4	17.4	64	0	0	0	0	2.4	17.4	0.0	0.0
4/6/15 8:40	54447	3.10	36.8	161	2.1	25.4	56	0	0	0	0	2.1	25.4	0.0	0.0
4/8/15 15:00	62367	2.50	36	161	2.0	29.8	67	0	0	0	0	2.0	29.8	0.0	0.0
4/8/15 22:40	63069	2.45	24.3	161	1.4	30.1	46	0	0	0	0	1.4	30.1	0.0	0.0
4/8/15 22:41	63069	0.00	0	0	0.0	30.1	0	0	0	0	0	0.0	30.1	0.0	0.0
4/15/15 12:59	63069	0.00	0	0	0.0	30.1	0	0	0	0	0	0.0	30.1	0.0	0.0
4/15/15 13:00	63069	3.50	31.2	154	1.7	30.1	40	0	0	0	0	1.7	30.1	0.0	0.0
4/16/15 9:15	67026	3.05	14.9	154	0.8	30.8	22	0	0	0	0	0.8	30.8	0.0	0.0
4/17/15 9:10	69646	1.56	9.9	154	0.5	31.4	28	0	0	0	0	0.5	31.4	0.0	0.0
4/17/15 14:00	70299	2.70	20.4	154	1.1	31.6	34	0	0	0	0	1.1	31.6	0.0	0.0
4/18/15 20:30	75363	2.45	24.3	161	1.4	33.6	46	0	0	0	0	1.4	33.6	0.0	0.0
4/18/15 20:31	75363	0.00	0	0	0.0	33.6	0	0	0	0	0	0.0	33.6	0.0	0.0
4/20/15 13:29	75363	0.00	0	0	0.0	33.6	0	0	0	0	0	0.0	33.6	0.0	0.0
4/20/15 13:30	75363	3.67	19.5	154	1.0	33.6	24	0	0	0	0	1.0	33.6	0.0	0.0
4/24/15 8:00	94552	3.34	29.3	147	1.5	39.6	38	0	0	0	0	1.5	39.6	0.0	0.0
4/24/15 13:30	95587	3.12	21.2	147	1.1	39.8	29	0	0	0.00	0.00	1.1	39.8	0.0	0.0
4/27/15 8:50	107485	2.38	19.1	147	1.0	43.2	34	0	0	0.00	0.00	1.0	43.2	0.0	0.0
4/27/15 14:15	108442	3.11	11.4	147	0.6	41.5	16	10	1.40	0.00	0.00	0.6	41.5	0.0	0.0
4/29/15 10:00	116389	3.00	55.6	146	2.8	49.1	79	10	3.70	0.01	0.02	2.8	49.1	0.0	0.0
5/1/15 10:10	125152	3.02	45.9	147	2.4	50.5	65	10	1.90	0.01	0.04	2.4	50.6	0.0	0.0
5/2/15 20:50	131432	3.02	45.9	147	2.4	57.2	65	10	1.90	0.01	0.05	2.4	57.2	0.0	0.0
5/2/15 20:51	131432	0.00	0	0	0.0	57.2	0	0	0	0.00	0.05	0.0	57.2	0.0	0.0
5/12/15 12:59	131949	0.00	0	0	0.0	57.2	0	0	0	0.00	0.05	0.0	57.2	0.0	0.0
5/12/15 13:00	131949	3.50	194.4	147	10.0	57.2	238	10	17	0.06	0.05	10.0	57.2	0.0	0.0
5/12/15 13:42	132119	3.30	194.4	147	10.0	57.6	252	10	17	0.06	0.05	10.0	57.6	0.0	0.0
5/15/15 9:35	145114	3.14	54	147	2.8	65.5	74	10	3	0.01	0.07	2.8	65.6	0.0	0.0
5/15/15 13:30	145799	3.05	59.4	147	3.0	66.0	83	10	2	0.01	0.08	3.1	66.1	0.0	0.0
5/18/15 10:45	159151	3.22	53	147	2.7	73.8	70	10	2	0.01	0.10	2.7	73.9	0.0	0.0

Table 3-1

Year 2015 MPE System Operation summary
lockheed Martin Middle River Complex
Middle River, MD

Date	Total Pumped (gallons)	MPE System Pumping Rate (gpm)	A/S Effluent Vapor PID reading (PPMv)	A/S Air Flow (SCFM)	A/S Contaminant Removal Rate (calculated) (lbs/day)	A/S Cumulative Contaminant Removal (calculated) (lbs)	A/S influent aqueous concentration (calculated) (mg/L)	Vacuum Pump Flow (SCFM)	Vacuum Pump Vapor PID reading (PPMv)	Vacuum Pump Contaminant Removal Rate (calculated) (lbs/day)	Vacuum Pump Cumulative Contaminant Removal (calculated) (lbs)	Total System Contaminant Removal Rate (calculated) (lbs/day)	Total System Cumulative Contaminant Removal (calculated) (lbs)	VGAC-1 Effluent Vapor PID reading (PPMv)	VGAC-2 Effluent Vapor PID reading (PPMv)
5/19/15 1:49	162056	3.22	53	147	2.7	75.5	70	10	2	0.01	0.10	2.7	75.6	0.0	0.0
5/19/15 1:50	162056	0.00	0	0	0.0	75.5	0	0	0	0.00	0.10	0.0	75.6	0.0	0.0
5/19/15 10:44	162056	0.00	0	0	0.0	75.5	0	0	0	0.00	0.10	0.0	75.6	0.0	0.0
5/19/15 10:45	162056	3.40	55.6	147	2.9	75.5	70	0	4	0.00	0.10	2.9	75.6	0.0	0.0
5/19/15 11:30	162163	3.40	55.6	147	2.9	75.6	70	10	4	0.01	0.10	2.9	75.7	0.0	0.0
5/22/15 8:00	175661	3.28	31.1	147	1.6	80.2	41	10	2	0.01	0.12	1.6	80.3	0.0	0.0
5/26/15 9:15	194577	3.24	34.2	147	1.8	87.3	45	10	2	0.01	0.15	1.8	87.4	0.0	0.0
5/27/15 11:50	199685	3.22	31.5	147	1.6	89.0	42	10	2	0.01	0.15	1.6	89.2	0.0	0.0
5/29/15 8:44	208316	3.20	34.7	147	1.8	92.4	46	10	2	0.01	0.17	1.8	92.5	0.0	0.0
5/29/15 13:34	209142	3.35	38	147	1.9	92.7	49	14	227	1.11	0.39	3.1	93.1	0.0	0.0
6/1/15 14:26	222765	3.11	45.3	147	2.3	99.8	62	9	187	0.56	2.08	2.9	101.9	0.0	0.0
6/2/15 15:32	226620	3.45	46.2	148	2.4	101.6	58	10	4	0.02	2.09	2.4	103.7	0.0	0.0
6/3/15 11:00	230609	3.43	39.4	148	2.0	103.3	49	10	4	0.01	2.10	2.0	105.4	0.0	0.0
6/3/15 15:57	231427	3.51	36.3	148	1.9	103.6	45	10	3	0.01	2.10	1.9	105.7	0.0	0.0
6/5/15 11:00	240380	3.36	37.6	148	1.9	107.2	48	10	4	0.01	2.13	2.0	109.3	0.0	0.0
6/8/15 9:05	254507	3.37	35.5	148	1.8	112.5	45	10	3	0.01	2.16	1.8	114.7	0.0	0.0
6/8/15 15:46	255856	3.35	30.1	148	1.6	113.0	39	10	3	0.01	2.17	1.6	115.1	0.0	0.0
6/10/15 9:00	262883	3.35	25.1	147	1.3	114.8	32	10	3	0.01	2.18	1.3	117.0	0.0	0.0
6/12/15 10:45	272836	3.30	30.5	147	1.6	118.1	40	10	3	0.01	2.21	1.6	120.3	0.0	0.0
6/17/15 8:32	291385	2.47	23	147	1.2	124.3	40	10	16	0.05	2.47	1.2	126.7	0.0	0.0
6/17/15 15:01	292629	3.30	20.7	147	1.1	124.5	27	10	2	0.01	2.48	1.1	127.0	0.0	0.0
6/19/15 9:33	300054	2.50	12.8	147	0.7	125.9	22	0	0	0.00	2.48	0.7	128.4	0.0	0.0
6/19/15 12:53	300705	3.45	31.9	147	1.6	126.1	40	10	3	0.01	2.48	1.6	128.6	0.0	0.0
6/20/15 22:54	307741	3.45	53	147	2.7	130.0	66	10	2	0.01	2.49	2.7	132.4	0.0	0.0
6/20/15 22:55	307741	0.00	0	0	0.0	130.0	0	0	0	0.00	2.49	0.0	132.4	0.0	0.0
6/22/15 9:39	307741	0.00	0	0	0.0	130.0	0	0	0	0.00	2.49	0.0	132.4	0.0	0.0
6/22/15 9:40	307741	4.00	31	147	1.6	130.0	33	10	4	0.01	2.49	1.6	132.4	0.0	0.0
6/24/15 7:09	318604	3.98	54.7	147	2.8	135.3	59	10	8	0.03	2.54	2.8	137.8	0.0	0.0
6/26/15 14:22	331374	3.56	35.9	147	1.8	139.9	43	10	21	0.07	2.71	1.9	142.6	0.0	0.0
6/30/15 9:48	350629	3.55	52.4	147	2.7	150.0	63	10	9	0.03	2.83	2.7	152.8	0.0	0.0
6/30/15 11:53	351082	3.44	80.2	147	4.1	150.4	100	10	6	0.02	2.83	4.1	153.2	0.0	0.0
7/2/15 12:00	360901	3.40	70.2	147	3.6	157.6	88	10	13	0.04	2.92	3.6	160.5	0.0	0.0
7/6/15 8:30	379819	3.40	51.4	147	2.6	167.8	65	10	8	0.03	3.03	2.7	170.8	0.0	0.0

Table 3-1

Year 2015 MPE System Operation summary
lockheed Martin Middle River Complex
Middle River, MD

Date	Total Pumped (gallons)	MPE System Pumping Rate (gpm)	A/S Effluent Vapor PID reading (PPMv)	A/S Air Flow (SCFM)	A/S Contaminant Removal Rate (calculated) (lbs/day)	A/S Cumulative Contaminant Removal (calculated) (lbs)	A/S influent aqueous concentration (calculated) (mg/L)	Vacuum Pump Flow (SCFM)	Vacuum Pump Vapor PID reading (PPMv)	Vacuum Pump Contaminant Removal Rate (calculated) (lbs/day)	Vacuum Pump Cumulative Contaminant Removal (calculated) (lbs)	Total System Contaminant Removal Rate (calculated) (lbs/day)	Total System Cumulative Contaminant Removal (calculated) (lbs)	VGAC-1 Effluent Vapor PID reading (PPMv)	VGAC-2 Effluent Vapor PID reading (PPMv)
7/8/15 10:24	390059	3.72	42.4	147	2.2	171.9	49	10	13	0.04	3.12	2.2	175.1	0.0	0.0
7/10/15 10:24	399678	3.42	35.2	147	1.8	175.5	44	10	9	0.03	3.18	1.8	178.7	0.0	0.0
7/13/15 12:27	410467	3.51	28.7	147	1.5	178.6	35	10	11	0.04	3.31	1.5	181.9	0.0	0.0
7/17/15 9:25	429160	3.32	28.2	147	1.4	184.3	36	10	12	0.04	3.46	1.5	187.7	0.0	0.0
7/22/15 8:08	452254	3.17	25.5	147	1.3	190.9	34	10	10	0.03	3.63	1.3	194.5	0.0	0.0
7/24/15 8:55	461511	3.16	24.1	147	1.2	193.4	33	10	6	0.02	3.67	1.3	197.1	0.0	0.0
7/28/15 8:55	478829	3.05	23.1	147	1.2	198.1	32	10	31	0.11	4.10	1.3	202.2	0.0	0.0
7/31/15 9:28	492313	3.01	20.1	145	1.0	201.2	28	10	18	0.06	4.30	1.1	205.5	0.0	0.0
8/4/15 7:57	509087	2.99	21.1	145	1.1	205.4	30	10	26	0.09	4.65	1.2	210.1	0.0	0.0
8/4/15 13:23	509905	2.63	19.3	145	1.0	205.6	31	10	22	0.08	4.67	1.1	210.3	0.0	0.0
8/11/15 12:34	536079	3.09	17.6	147	0.9	210.9	24	10	25	0.09	5.29	1.0	216.2	0.0	0.0
8/14/15 21:55	546715	2.51	14.9	147	0.8	213.2	25	10	31	0.11	5.66	0.9	218.8	0.0	0.0
8/25/15 14:26	586704	2.77	14.2	147	0.7	220.5	22	10	21	0.07	6.44	0.8	226.9	0.0	0.0
8/31/15 13:02	609213	2.73	18.1	150	0.9	225.9	29	10	26	0.09	6.99	1.0	232.9	0.0	0.0
9/4/15 8:28	623228	2.49	13.8	145	0.7	228.6	23	10	36	0.12	7.47	0.8	236.1	0.0	0.0
9/8/15 14:51	638908	2.92	14.8	145	0.7	231.4	21	10	48	0.17	8.18	0.9	239.6	0.0	0.0
9/11/15 9:22	648675	2.33	11.9	145	0.6	233.2	22	10	26	0.09	8.44	0.7	241.6	0.0	0.0
9/15/15 15:37	663552	2.37	12.5	145	0.6	235.9	22	10	26	0.09	8.83	0.7	244.8	0.0	0.0
9/18/15 9:12	673021	2.42	12.5	145	0.6	237.7	22	10	34	0.12	9.15	0.8	246.8	0.0	0.0
9/22/15 9:20	686905	2.46	12.4	145	0.6	240.1	21	10	38	0.13	9.67	0.8	249.8	0.0	0.0
9/22/15 13:55	687653	3.31	20.3	145	1.0	240.3	26	10	14	0.05	9.68	1.1	250.0	0.0	0.0
9/23/15 15:43	691066	3.35	19.4	145	1.0	241.0	24	10	6	0.02	9.71	1.0	250.7	0.0	0.0
9/25/15 14:12	700276	3.23	11.4	145	0.6	242.1	15	10	12	0.04	9.79	0.6	251.9	0.0	0.0
9/28/15 11:20	713891	3.19	10.2	145	0.5	243.6	13	10	17	0.06	9.96	0.6	253.6	0.0	0.0
10/1/15 10:32	727946	3.15	11.2	145	0.6	245.4	15	10	24	0.08	10.21	0.7	255.6	0.0	0.0
10/2/15 11:15	732826	3.15	11.2	145	0.6	246.0	15	10	24	0.08	10.30	0.7	256.3	0.0	0.0
10/2/15 11:15	732826	0.00	0	0	0.0	246.0	0	0	0	0.00	10.30	0.0	256.3	0.0	0.0
10/7/15 11:15	732826	0.00	0	0	0.0	246.0	0	0	0	0.00	10.30	0.0	256.3	0.0	0.0
10/7/15 11:15	733605	2.30	28.6	145	1.4	246.4	52	10	19	0.07	10.30	1.5	256.7	0.0	0.0
10/7/15 15:14	733605	2.30	28.6	145	1.4	246.4	52	10	19	0.07	10.31	1.5	256.7	0.0	0.0
10/8/15 12:45	737360	2.73	15.2	143	0.8	247.1	23	10	58	0.20	10.49	1.0	257.6	0.0	0.0
10/12/15 9:30	752296	2.68	14	143	0.7	249.8	22	10	58	0.20	11.28	0.9	261.1	0.0	0.0
10/12/15 9:30	752296	0.00	0	0	0.0	249.8	0	0	0	0.00	11.28	0.0	261.1	0.0	0.0

Table 3-1

Year 2015 MPE System Operation summary
lockheed Martin Middle River Complex
Middle River, MD

Date	Total Pumped (gallons)	MPE System Pumping Rate (gpm)	A/S Effluent Vapor PID reading (PPMv)	A/S Air Flow (SCFM)	A/S Contaminant Removal Rate (calculated) (lbs/day)	A/S Cumulative Contaminant Removal (calculated) (lbs)	A/S influent aqueous concentration (calculated) (mg/L)	Vacuum Pump Flow (SCFM)	Vacuum Pump Vapor PID reading (PPMv)	Vacuum Pump Contaminant Removal Rate (calculated) (lbs/day)	Vacuum Pump Cumulative Contaminant Removal (calculated) (lbs)	Total System Contaminant Removal Rate (calculated) (lbs/day)	Total System Cumulative Contaminant Removal (calculated) (lbs)	VGAC-1 Effluent Vapor PID reading (PPMv)	VGAC-2 Effluent Vapor PID reading (PPMv)
10/14/15 13:30	752296	0.00	0	0	0.0	249.8	0	0	0	0.00	11.28	0.0	261.1	0.0	0.0
10/14/15 13:30	752296	2.96	19.1	143	1.0	249.8	27	10	11	0.04	11.28	1.0	261.1	0.0	0.0
10/14/15 15:52	753646	2.96	19.1	143	1.0	250.1	27	10	11	0.04	11.28	1.0	261.4	0.0	0.0
10/16/15 10:21	760363	2.42	13.7	143	0.7	251.4	24	10	13	0.05	11.37	0.7	262.8	0.0	0.0
10/20/15 9:32	774748	2.55	13.4	145	0.7	254.1	22	10	22	0.08	11.67	0.8	265.7	0.0	0.0
10/23/15 11:18	785327	2.64	11.5	142	0.6	255.6	18	10	16	0.06	11.84	0.6	267.5	0.0	0.0
10/27/15 9:38	798958	2.45	13.1	145	0.7	258.2	23	10	24	0.08	12.17	0.7	270.4	0.0	0.0
10/30/15 13:16	810257	2.44	10.5	144	0.5	259.9	18	10	23	0.08	12.42	0.6	272.3	0.0	0.0
11/3/15 8:21	823863	2.47	11	143	0.5	262.0	19	10	22	0.08	12.72	0.6	274.7	0.0	0.0
11/5/15 14:37	831824	2.51	11.1	140	0.5	263.2	18	10	26	0.09	12.92	0.6	276.1	0.0	0.0
11/9/15 13:51	845786	2.12	9.6	140	0.5	265.3	18	10	22	0.08	13.23	0.5	278.6	0.0	0.0
11/13/15 9:34	859429	2.39	11.4	140	0.6	267.6	19	10	29	0.10	13.62	0.7	281.2	0.0	0.0
11/17/15 11:52	873908	2.41	11.2	140	0.5	269.8	19	10	16	0.05	13.84	0.6	283.7	0.0	0.0
11/20/15 9:58	884394	2.42	11.6	140	0.6	271.5	20	10	15	0.05	14.00	0.6	285.5	0.0	0.0
11/24/15 9:37	898410	2.61	15	140	0.7	274.3	23	10	17	0.06	14.23	0.8	288.5	0.0	0.0
11/30/15 10:00	919057	2.38	11	140	0.5	277.5	19	10	15	0.05	14.55	0.6	292.1	0.0	0.0

Notes

gpm	gallons per minute
A/S	air stripper
PID	photo-ionozation detector
PPMv	parts per million by volume
SCFM	standard cubic feet per minute
VGAC	vapor-phase granular activated carbon
mg/L	milligrams per liter

Table 3-2

Year 2015 Individual MPE Wells Information
Lockheed Martin Middle River Complex
Middle River, MD

Date	System Total		MPE-1		MPE-2		MPE-3		MPE-4		Wellhead Vacuum Applied (in.Hg.)	Comments
	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)		
3/25/15 14:00	0	3.50	0	0.35	0	1.00	0	1.00	0	0.80	0.0	Start-up with 4 wells
3/25/15 17:30	703	3.50	85	0.35	43	1.00	394	1.00	172	0.80	0.0	MPE-1, 2, 3, 4
3/26/15 9:05	3801	3.38	411	0.36	960	0.96	1433	1.12	922	0.81	0.0	MPE-1, 2, 3, 4
3/30/15 12:00	23259	3.29	3071	0.47	6760	0.96	7624	1.03	5774	0.83	0.0	MPE-1, 2, 3, 4
4/1/15 9:45	32159	3.06	4353	0.46	9403	0.94	10456	0.97	7952	0.73	0.0	MPE-1, 2, 3, 4
4/2/15 12:55	37247	3.15	5096	0.46	10910	0.95	12072	1.03	9195	0.75	0.0	MPE-1, 2, 3, 4
4/6/15 8:40	54447	3.10	7624	0.46	16011	0.91	17631	1.00	13275	0.73	0.0	Turned off MPE-3 at 8:47am
4/8/15 15:00	62367	2.45	9274	0.51	16351	1.01	17649	0.00	13076	0.73	0.0	MPE-1, 2, 4
4/8/15 22:40												Shutdown (rain)
4/15/15 12:00	63069	3.50	9536	0.48	19404	1.03	17649	1.14	16449	0.78	0.0	Restart with 4 wells
4/16/15 9:15	67026	3.05	10139	0.47	20501	0.94	19033	1.10	17303	0.74	0.0	MPE-1, 2, 3, 4
4/17/15 9:10	69646	1.56	10916	0.57	22073	1.17	19166	0.00	17530	0.00	0.0	MPE-3 and 4 are off
4/17/15 14:00	70299	2.70	11079	0.55	22405	1.07	19232	1.20	17655	0.00	0.0	MPE-4 is off
4/18/15 20:30												Shutdown(rain)
4/20/15 13:30	75363	3.67	12001	0.54	24300	1.01	21431	1.20	17655	0.86	0.0	Restart with 4 wells
4/24/15 8:00	94552	3.34	14779	0.48	29691	0.91	27799	1.10	22238	0.78	0.0	MPE-1, 2, 3, 4
4/24/15 13:30	95587	3.12	15034	0.86	300023	1.00	28191	1.14	22283	0.00	0.0	MPE-4 is off
4/27/15 8:50	107485	2.38	17770	0	34296	1.11	33005	1.25	22283	0.00	0.0	MPE-1 and MPE-4 are off
4/27/15 14:15	108442	3.11	18026	0.87	34622	1.02	33378	1.18	22283	0.00	10.0	MPE-1 @ vacuum.
4/29/15 10:00	116389	3.00	20287	0.85	37348	1.00	36433	1.17	22283	0.00	10.0	MPE-1 @ vacuum.
5/1/15 10:10	125152	3.02	22037	0.83	40142	1.02	39853	1.18	22283	0.00	11.0	MPE-1 @ vacuum.
5/1/15 14:55	125976	3.37	22956	0.79	40576	2.45	40019	0.00	22283	0.00	11.5	Turned off MPE-3 and switched MPE-2 to full flow. MPE-1 @ vacuum.
5/2/15 20:50												Shutdown (A/S blower failure)
5/12/15 13:42	132119	3.30	24456	0.72	45148	2.50	40019	0.00	22283	0.00	11.0	Restart with MPE-1 @ vacuum and MPE-2 @ full flow
5/15/15 9:35	145114	3.14	27299	0.7	55141	2.32	40019	0.00	22283	0.00	10.0	MPE-1 @ vacuum, MPE-2 @ full flow
5/18/15 10:45	159151	3.22	30531	0.72	65865	2.43	40019	0.00	22283	0.00	10.0	MPE-1 @ vacuum, MPE-2 @ full flow
5/19/15 1:50												Shutdown (rain)
5/19/15 11:30	162163	3.40	31262	0.7	68607	2.61	40019	0.00	22283	0.00	13.0	Restart with MPE-1 @ vacuum and MPE-2 @ full flow
5/22/15 8:00	175661	3.28	34075	0.69	78523	2.47	40019	0.00	22283	0.00	10.0	MPE-1 @ vacuum, MPE-2 @ full flow
5/26/15 9:15	194577	3.24	38184	0.68	93034	2.35	40019	0.00	22283	0.00	11.0	MPE-1 @ vacuum, MPE-2 @ full flow

Table 3-2

Year 2015 Individual MPE Wells Information
Lockheed Martin Middle River Complex
Middle River, MD

Date	System Total		MPE-1		MPE-2		MPE-3		MPE-4		Wellhead Vacuum Applied (in.Hg.)	Comments
	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)		
5/27/15 11:50	199685	3.22	39293	0.67	96954	2.50	40019	0.00	22283	0.00	11.0	MPE-1 @ vacuum, MPE-2 @ full flow
5/29/15 8:44	208316	3.20	41164	0.69	103590	2.42	40019	0.00	22283	0.00	12.0	MPE-1 @ vacuum, MPE-2 @ full flow
5/29/15 13:34	209142	3.35	41426	1.03	103713	0.00	40267	1.08	22467	1.20	10.0	Turned off MPE-2. MPE-1, 3, 4 @ vacuum
6/1/15 14:26	222765	3.11	45683	1.46	103713	0.00	44830	1.10	27119	0.37	10.0	MPE-1, 3, 4 @ vacuum
6/2/15 15:32	226620	3.45	46986	0.83	103713	0.00	46586	1.10	28148	1.44	10.0	MPE-1, 3, 4 @ vacuum
6/3/15 11:00	230609	3.43	47954	0.83	103713	0.00	47913	1.14	29821	1.42	10.0	MPE-1, 3, 4 @ vacuum
6/5/15 11:00	240380	3.36	50335	0.81	103713	0.00	51209	1.15	33847	1.35	10.0	MPE-1, 3, 4 @ vacuum
6/8/15 15:46	255856	3.35	54131	0.81	103713	0.00	56431	1.12	40185	1.34	11.0	MPE-1, 3, 4 @ vacuum
6/10/15 14:21	263936	3.34	55919	0.83	103713	0.00	59695	1.11	43173	1.39	11.0	MPE-1, 3, 4 @ vacuum
6/12/15 10:45	272836	3.30	58095	0.82	103713	0.00	62682	1.13	56855	1.33	12.0	MPE-1, 3, 4 @ vacuum
6/17/15 15:01	292629	3.19	66498	0.83	103713	0.00	63307	1.13	57482	1.34	12.0	MPE-1, 3, 4 @ vacuum
6/19/15 12:53	300705	3.45	68442	0.85	103713	0.00	66493	1.11	60516	1.41	12.0	MPE-1, 3, 4 @ vacuum
6/20/15 22:55												Shutdown(rain)
6/22/15 11:15	307986	4.00	70179	1.13	103713	0.00	68877	1.26	63538	1.56	14.0	Restart with MPE-1, 3, 4 @ vacuum
6/24/15 7:09	318604	3.98	73068	1.13	103713	0.00	72275	1.26	67831	1.56	14.0	MPE-1, 3, 4 @ vacuum
6/26/15 14:22	331374	3.56	76672	1.18	103713	0.00	76388	0.61	72826	1.67	13.0	MPE-1 and 4 @ vacuum. MPE-3 off vacuum
6/30/15 11:53	351082	3.44	83204	1.21	103713	0.00	80133	0.34	81964	1.81	13.5	MPE-1 , 4 @ vacuum. MPE-3 @ reduced flow
7/2/15 12:00	360901	3.40	86758	1.21	103713	0.00	81293	0.34	86922	1.81	13.5	MPE-1 , 4 @ vacuum. MPE-3 @ reduced flow
7/6/15 8:30	379819	3.40	93719	1.2	103713	0.00	83438	0.36	96502	1.81	14.0	MPE-1 , 4 @ vacuum. MPE-3 @ reduced flow
7/8/15 10:24	390059	3.72	97451	1.19	103713	0.00	84562	0.37	101589	1.69	15.0	MPE-1 , 4 @ vacuum. MPE-3 @ reduced flow
7/10/15 10:24	399678	3.42	100929	1.23	103713	0.00	85616	0.37	106487	1.78	14.5	MPE-1 , 4 @ vacuum. MPE-3 @ reduced flow
7/13/15 12:27	410467	3.51	104629	1.38	103713	0.00	87809	0.25	111301	1.79	14.0	MPE-1 , 4 @ vacuum. MPE-3 @ reduced flow
7/17/15 9:25	429160	3.32	111811	1.25	103713	0.00	89096	0.24	121309	1.65	14.0	MPE-1 , 4 @ vacuum. MPE-3 @ reduced flow
7/22/15 8:08	452254	3.17	120783	1.24	103713	0.00	90704	0.16	133639	1.72	15.5	MPE-1 , 4 @ vacuum.
7/24/15 8:55	461511	3.16	130741	1.21	103870	0.00	91407	0.00	138774	1.75	12.0	MPE-1 , 4 @ vacuum.
7/28/15 8:55	478829	3.05	130741	1.14	103870	0.00	91407	0.00	148932	1.84	12.5	MPE-1 , 4 @ vacuum.

Table 3-2

Year 2015 Individual MPE Wells Information
Lockheed Martin Middle River Complex
Middle River, MD

Date	System Total		MPE-1		MPE-2		MPE-3		MPE-4		Wellhead Vacuum Applied (in.Hg.)	Comments
	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)		
7/31/15 9:28	492313	3.01	135925	1.17	103870	0.00	91407	0.00	157056	1.78	12.5	MPE-1 , 4 @ vacuum.
8/4/15 7:57	509087	2.99	142804	1.14	103870	0.00	91407	0.00	166712	1.79	15.0	MPE-1 , 4 @ vacuum.
8/4/15 13:23	509905	2.63	143176	1.23	103870	0.00	91407	0.00	167148	1.33	12.5	MPE-1 , 4 @ vacuum.
8/11/15 12:34	536079	3.09	154612	1.81	103870	0.00	91407	0.00	181536	1.33	13.5	MPE-1 , 4 @ vacuum.
8/14/15 21:55	546715	2.51	159162	1.09	103870	0.00	91407	0.00	187489	1.43	14.0	MPE-1 , 4 @ vacuum.
8/25/15 14:26	586704	2.77	176465	1.59	103870	0.00	91407	0.00	209732	1.26	12.5	MPE-1 , 4 @ vacuum.
8/31/15 13:02	609213	2.73	187097	1.58	103870	0.00	91407	0.00	221442	1.58	15.0	MPE-1 , 4 @ vacuum.
9/4/15 8:28	623228	2.49	193459	1.14	103870	0.00	91407	0.00	228917	1.32	15.0	MPE-1 , 4 @ vacuum.
9/8/15 14:51	638908	2.92	200643	1.36	103870	0.00	91407	0.00	237233	1.50	16.0	MPE-1 , 4 @ vacuum.
9/11/15 9:22	648675	2.33	204991	1.11	103870	0.00	91407	0.00	242568	1.22	11.5	MPE-1 , 4 @ vacuum.
9/15/15 15:37	663552	2.37	211554	1.05	103870	0.00	91407	0.00	250731	1.31	11.5	MPE-1 , 4 @ vacuum.
9/18/15 9:12	673021	2.42	215737	1.05	103870	0.00	91407	0.00	255917	1.27	13.5	MPE-1 , 4 @ vacuum.
9/22/15 9:20	686905	2.46	221801	1.07	103870	0.00	91407	0.00	263559	1.28	14.5	MPE-1 , 4 @ vacuum.
9/22/15 13:55	687653	3.31	221972	1.18	103870	0.00	91689	2.08	263670	0.00	12.0	MPE-1 , 3 @ vacuum.
9/23/15 15:43	691066	3.35	223183	1.19	104041	0.00	93879	2.11	263670	0.00	12.0	MPE-1 , 3 @ vacuum.
9/25/15 14:12	700276	3.23	226379	1.1	104041	0.00	99882	2.11	263670	0.00	13.5	MPE-1 , 3 @ vacuum.
9/28/15 11:20	713891	3.19	231028	1.11	104041	0.00	108756	2.11	263670	0.00	13.5	MPE-1 , 3 @ vacuum.
10/1/15 10:32	727946	3.15	235800	1.1	104041	0.00	117924	2.08	263670	0.00	16.5	MPE-1 , 3 @ vacuum.
10/2/15 11:15	732826	3.15	237459	1.1	104041	0.00	121105	2.05	263670	0.00	11.0	MPE-1 , 3 @ vacuum.
10/2/15 11:15	732826	0.00	237459	0	104041	0.00	121105	0.00	263670	0.00	0.0	Off
10/7/15 11:15	732826	0.00	237459	0	104041	0.00	121105	0.00	263670	0.00	0.0	Off
10/7/15 11:15	733605	2.30	237459	1.33	104041	0.00	121105	0.00	263670	1.86	12.0	MPE-1 , 4 @ vacuum.
10/7/15 15:14	733605	2.30	237799	1.33	104041	0.00	121105	0.00	264083	1.86	12.0	MPE-1 , 4 @ vacuum.
10/8/15 12:45	737360	2.73	23742	1.23	104041	0.00	121126	0.00	266107	1.42	12.0	MPE-1 , 4 @ vacuum.
10/12/15 9:30	752296	2.68	246710	1.23	104041	0.00	121126	0.00	274590	1.30	12.0	MPE-1 , 4 @ vacuum.
10/12/15 9:30	752296	0.00	246710	0	104041	0.00	121126	0.00	274590	0.00	0.0	Off
10/14/15 13:30	752296	0.00	246710	0	104041	0.00	121126	0.00	274590	0.00	0.0	Off
10/14/15 13:30	752296	2.96	246710	1.22	104041	0.00	121126	0.00	274590	1.65	12.0	MPE-1 , 4 @ vacuum.
10/14/15 15:52	753646	2.96	246908	1.22	104041	0.00	121126	0.00	274842	1.65	12.0	MPE-1 , 4 @ vacuum.
10/16/15 10:21	760363	2.42	249995	1.17	104041	0.00	121126	0.00	278437	1.32	12.5	MPE-1 , 4 @ vacuum.
10/20/15 9:32	774748	2.55	256660	1.18	104041	0.00	121126	0.00	286074	1.34	13.5	MPE-1 , 4 @ vacuum.
10/23/15 11:18	785327	2.64	25939	0.97	104041	0.00	121126	0.00	291724	1.62	11.5	MPE-1 , 4 @ vacuum.
10/27/15 9:38	798958	2.45	267336	1.03	104041	0.00	121126	0.00	299310	1.42	13.0	MPE-1 , 4 @ vacuum.
10/30/15 13:16	810257	2.44	272384	1.09	104041	0.00	121126	0.00	305449	1.35	12.0	MPE-1 , 4 @ vacuum.

Table 3-2

Year 2015 Individual MPE Wells Information
Lockheed Martin Middle River Complex
Middle River, MD

Date	System Total		MPE-1		MPE-2		MPE-3		MPE-4		Wellhead Vacuum Applied (in.Hg.)	Comments
	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)	Total Pumped (gallons)	Instant Pumping Rate (gpm)		
11/3/15 8:21	823863	2.47	278541	1.12	104041	0.00	121126	0.00	312780	1.30	13.5	MPE-1 , 4 @ vacuum.
11/5/15 14:37	831824	2.51	282387	1.21	104041	0.00	121126	0.00	316820	1.30	12.5	MPE-1 , 4 @ vacuum.
11/9/15 13:51	845786	2.12	289187	1.22	104041	0.00	121126	0.00	323859	1.07	12.0	MPE-1 , 4 @ vacuum.
11/13/15 9:34	859429	2.39	295592	1.18	104041	0.00	121126	0.00	331010	1.27	11.5	MPE-1 , 4 @ vacuum.
11/17/15 11:52	873908	2.41	302398	1.14	104041	0.00	121126	0.00	338604	1.23	12.0	MPE-1 , 4 @ vacuum.
11/20/15 9:58	884394	2.42	307295	1.17	104041	0.00	121126	0.00	344132	1.31	11.5	MPE-1 , 4 @ vacuum.
11/24/15 9:37	898410	2.61	313835	1.19	104041	0.00	121126	0.00	351521	1.33	11.0	MPE-1 , 4 @ vacuum.
11/30/15 10:00	919057	2.60	323223	1.2	104041	0.00	121126	0.00	363091	1.40	12.0	MPE-1 , 4 @ vacuum.
11/30/15 10:00	919057	0.00	323223	0	104041	0.00	121126	0.00	363091	0.00	0.0	Off

Notes
gpm gallons per minute

Table 3-3. MPE Wells Individual Contribution, LMC MRC Block E MPE System Operation

6/17/2015 Analytical Data

Sample ID	TCE mg/L	Pumping Rate gpm	Removal Rate lbs/day	Contribution
MPE-1	44	0.83	0.44	47%
MPE-3	6.3	1.13	0.09	9%
MPE-4	25	1.34	0.40	43%
Inlet	24	3.3	0.95	

7/24/2015 Individual MPE Wells Test

Well ID	Flow (gpm)	Vapors ppmv	Calculated Aqueous TCE (mg/L)	TCE Removal (lb/day)
MPE-1	1.33	11.3	38.0	0.6
MPE-2	2.59	4.4	7.6	0.2
MPE-3	2.1	4	8.5	0.2
MPE-4	1.92	9.9	23.1	0.5
			Combined:	1.6

9/22/2015 Individual MPE Wells Test

Well ID	Flow (gpm)	Vapors ppmv	Calculated Aqueous TCE (mg/L)	TCE Removal (lb/day)	Contribution
MPE-1	1.14	4.3	16.9	0.2	11%
MPE-2	3.02	6.8	10.1	0.4	17%
MPE-3	2.47	21.5	39.0	1.2	55%
MPE-4	1.68	6.3	16.8	0.3	16%
			Combined:	2.1	100%

Figure 3-1. Contaminant Removal Rates and Totals for 2015
LMC MRC Block E MPE System Operation

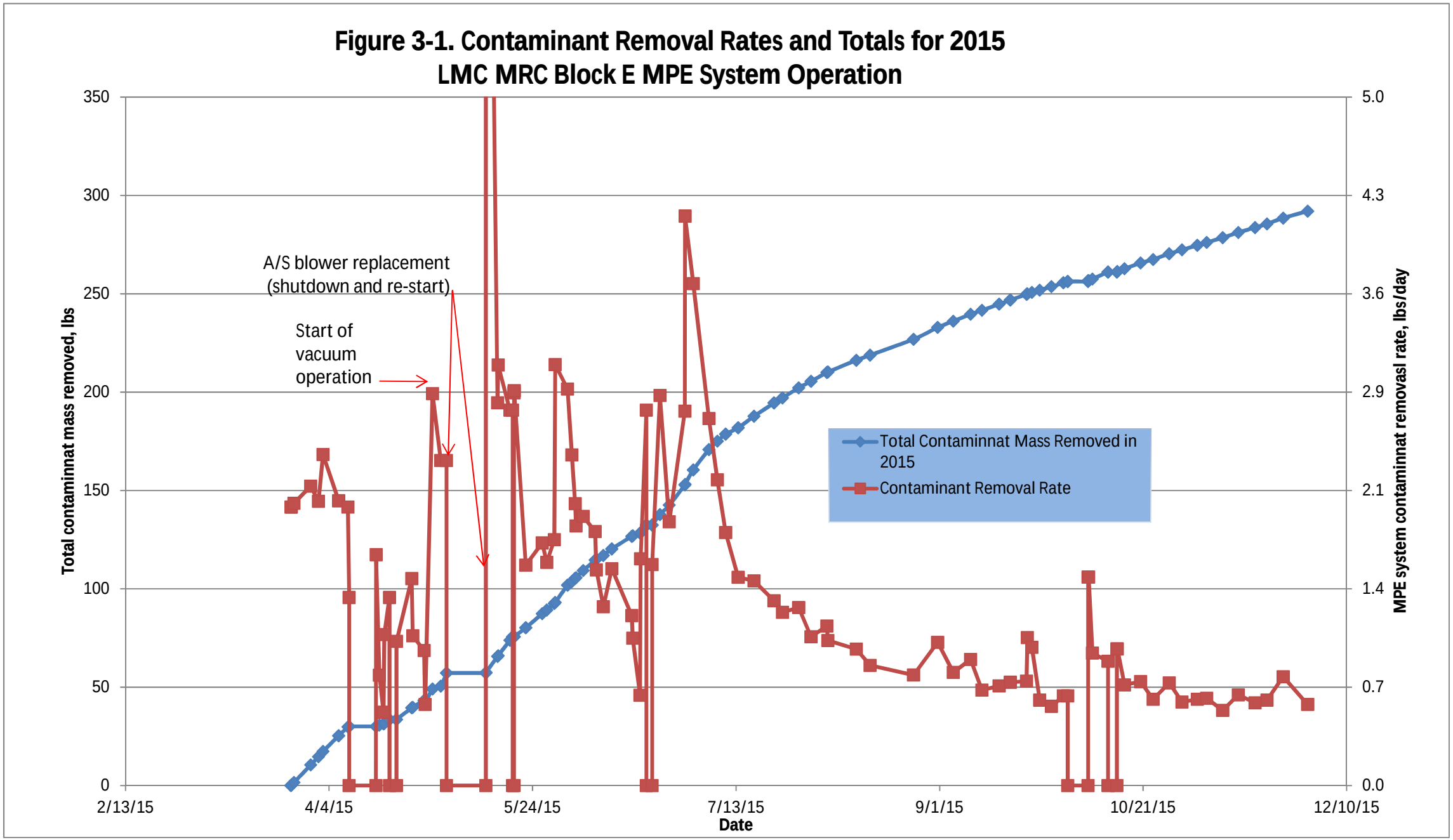


Figure 3-2. Pumping Rates and Flows for 2015
LMC MRC Block E MPE System Operation

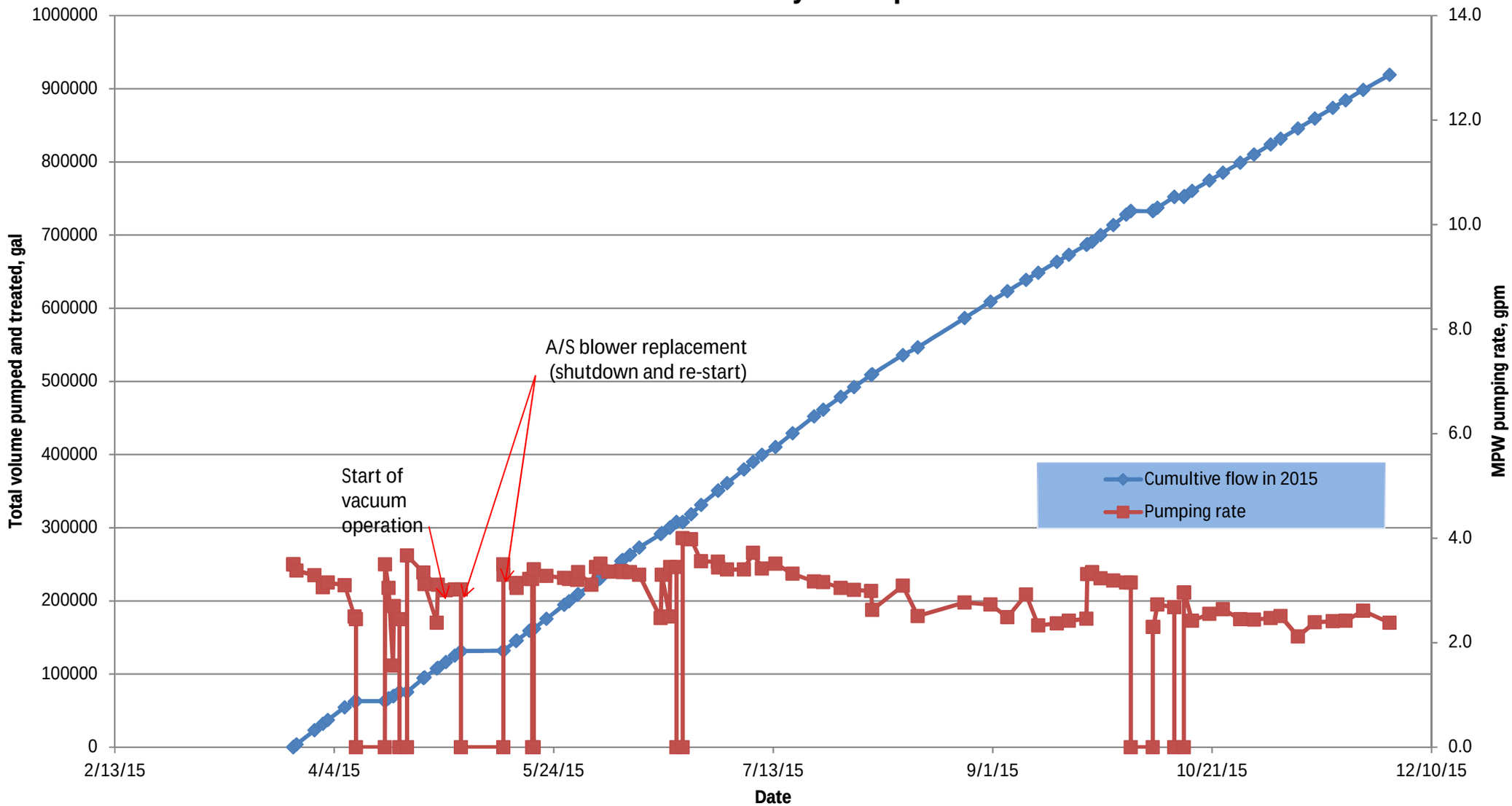
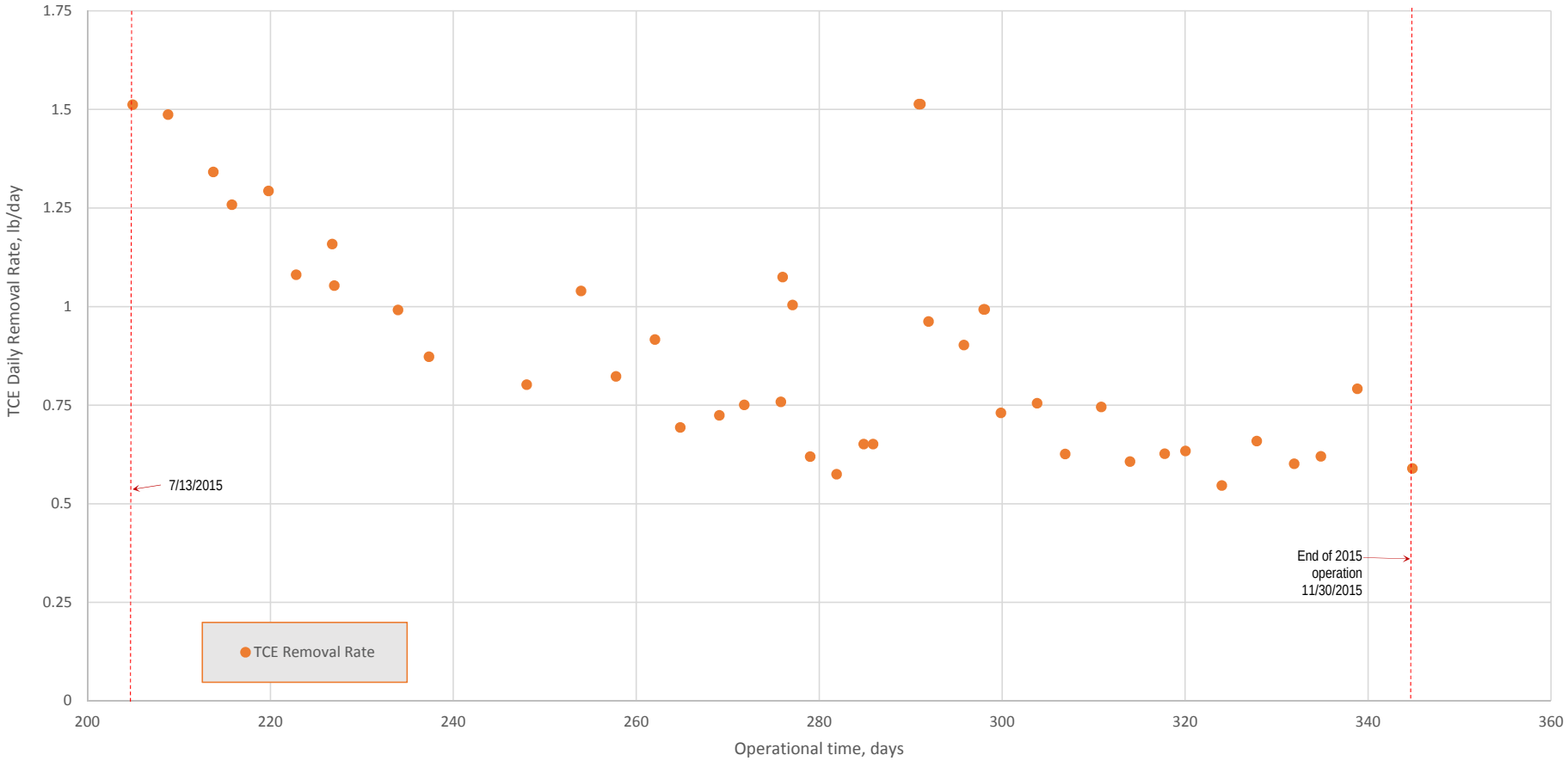


Figure 3-3. Contaminant Removal in 2015 from Mid-July to end of November
LMC MRC Block E MPE System Operation



Section 4
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APPENDIX A—ANALYTICAL SAMPLING RESULTS FOR 2014

APPENDIX A

ANALYTICAL SAMPLING RESULTS FOR 2014

9/16/2014 SAMPLING EVENT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-41962-1
Client Project/Site: MRC BLOCK E MPE SYSTEM O&M

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, Maryland 20874

Attn: Tony Apanavage

Authorized for release by:
9/18/2014 9:18:09 AM

John McFadden, Project Manager I
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Pre Liminary Data

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Preliminary Data

Definitions/Glossary

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Preliminary Data

Detection Summary

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Client Sample ID: TB-091614 — **Lab Sample ID: 240-41962-1**

No Detections.

Client Sample ID: WSP-4-091614 — **Lab Sample ID: 240-41962-2**

No Detections.

Client Sample ID: FRT-1-091614 — **Lab Sample ID: 240-41962-3**

No Detections.

Preliminary Data

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Client Sample ID: TB-091614
Date Collected: 09/16/14 00:00
Date Received: 09/17/14 07:50

Lab Sample ID: 240-41962-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28	ug/L			09/17/14 13:14	1
1,1,1-Trichloroethane	0.22	U	1.0	0.22	ug/L			09/17/14 13:14	1
1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22	ug/L			09/17/14 13:14	1
1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37	ug/L			09/17/14 13:14	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/17/14 13:14	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			09/17/14 13:14	1
1,1-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/17/14 13:14	1
1,2,3-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/17/14 13:14	1
1,2,3-Trichloropropane	0.30	U	1.0	0.30	ug/L			09/17/14 13:14	1
1,2,3-Trimethylbenzene	0.47	U	5.0	0.47	ug/L			09/17/14 13:14	1
1,2,4-Trichlorobenzene	0.32	U	1.0	0.32	ug/L			09/17/14 13:14	1
1,2,4-Trimethylbenzene	0.41	U	1.0	0.41	ug/L			09/17/14 13:14	1
1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82	ug/L			09/17/14 13:14	1
1,2-Dichlorobenzene	0.17	U	1.0	0.17	ug/L			09/17/14 13:14	1
1,2-Dichloroethane	0.20	U	1.0	0.20	ug/L			09/17/14 13:14	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/17/14 13:14	1
1,3-Dichlorobenzene	0.17	U	1.0	0.17	ug/L			09/17/14 13:14	1
1,3-Dichloropropane	0.18	U	1.0	0.18	ug/L			09/17/14 13:14	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			09/17/14 13:14	1
2,2-Dichloropropane	0.26	U	1.0	0.26	ug/L			09/17/14 13:14	1
2-Butanone (MEK)	4.1	U	10	4.1	ug/L			09/17/14 13:14	1
2-Chloroethyl vinyl ether	1.2	U *	10	1.2	ug/L			09/17/14 13:14	1
2-Chlorotoluene	0.20	U	1.0	0.20	ug/L			09/17/14 13:14	1
2-Hexanone	3.9	U	10	3.9	ug/L			09/17/14 13:14	1
4-Chlorotoluene	0.22	U	1.0	0.22	ug/L			09/17/14 13:14	1
4-Isopropyltoluene	0.43	U	1.0	0.43	ug/L			09/17/14 13:14	1
4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6	ug/L			09/17/14 13:14	1
Acetone	3.4	U	10	3.4	ug/L			09/17/14 13:14	1
Benzene	0.24	U	1.0	0.24	ug/L			09/17/14 13:14	1
Bromobenzene	0.12	U	1.0	0.12	ug/L			09/17/14 13:14	1
Bromoform	0.56	U	1.0	0.56	ug/L			09/17/14 13:14	1
Bromomethane	0.63	U	1.0	0.63	ug/L			09/17/14 13:14	1
Carbon disulfide	0.28	U	1.0	0.28	ug/L			09/17/14 13:14	1
Carbon tetrachloride	0.17	U	1.0	0.17	ug/L			09/17/14 13:14	1
Chlorobenzene	0.19	U	1.0	0.19	ug/L			09/17/14 13:14	1
Chlorodibromomethane	0.43	U	1.0	0.43	ug/L			09/17/14 13:14	1
Chloroethane	0.33	U	1.0	0.33	ug/L			09/17/14 13:14	1
Chloroform	0.21	U	1.0	0.21	ug/L			09/17/14 13:14	1
Chloromethane	0.44	U	1.0	0.44	ug/L			09/17/14 13:14	1
cis-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			09/17/14 13:14	1
cis-1,3-Dichloropropene	0.46	U	1.0	0.46	ug/L			09/17/14 13:14	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			09/17/14 13:14	1
Bromochloromethane	0.25	U	1.0	0.25	ug/L			09/17/14 13:14	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	ug/L			09/17/14 13:14	1
Bromodichloromethane	0.15	U	1.0	0.15	ug/L			09/17/14 13:14	1
tert-Butyl alcohol	8.7	U	50	8.7	ug/L			09/17/14 13:14	1
Ethylbenzene	0.23	U	1.0	0.23	ug/L			09/17/14 13:14	1
Hexachlorobutadiene	0.35	U	1.0	0.35	ug/L			09/17/14 13:14	1
Diisopropyl ether	0.19	U	10	0.19	ug/L			09/17/14 13:14	1

Preliminary Data

Client Sample ID: TB-091614
Date Collected: 09/16/14 00:00
Date Received: 09/17/14 07:50

Lab Sample ID: 240-41962-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			09/17/14 13:14	1
Methyl tert-butyl ether	0.16	U	1.0	0.16	ug/L			09/17/14 13:14	1
Methylene Chloride	0.28	U	1.0	0.28	ug/L			09/17/14 13:14	1
m-Xylene & p-Xylene	0.22	U	2.0	0.22	ug/L			09/17/14 13:14	1
Naphthalene	0.45	U	1.0	0.45	ug/L			09/17/14 13:14	1
n-Butylbenzene	0.22	U	1.0	0.22	ug/L			09/17/14 13:14	1
N-Propylbenzene	0.40	U	1.0	0.40	ug/L			09/17/14 13:14	1
o-Xylene	0.21	U	1.0	0.21	ug/L			09/17/14 13:14	1
sec-Butylbenzene	0.48	U	1.0	0.48	ug/L			09/17/14 13:14	1
Styrene	0.45	U	1.0	0.45	ug/L			09/17/14 13:14	1
Tert-amyl methyl ether	0.16	U	5.0	0.16	ug/L			09/17/14 13:14	1
Ethyl tert-butyl ether	0.20	U	5.0	0.20	ug/L			09/17/14 13:14	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			09/17/14 13:14	1
Toluene	0.22	U	1.0	0.22	ug/L			09/17/14 13:14	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/17/14 13:14	1
trans-1,3-Dichloropropene	0.56	U	1.0	0.56	ug/L			09/17/14 13:14	1
Trichloroethene	0.15	U	1.0	0.15	ug/L			09/17/14 13:14	1
Trichlorofluoromethane	0.49	U	1.0	0.49	ug/L			09/17/14 13:14	1
Vinyl acetate	0.41	U	2.0	0.41	ug/L			09/17/14 13:14	1
Vinyl chloride	0.29	U	1.0	0.29	ug/L			09/17/14 13:14	1
Xylenes, Total	0.43	U	2.0	0.43	ug/L			09/17/14 13:14	1
tert-Butylbenzene	0.41	U	1.0	0.41	ug/L			09/17/14 13:14	1
1,2-Dibromoethane	0.19	U	1.0	0.19	ug/L			09/17/14 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*79*		*74 - 120*		*09/17/14 13:14*	*1*
Dibromofluoromethane (Surr)	*87*		*75 - 121*		*09/17/14 13:14*	*1*
4-Bromofluorobenzene (Surr)	*75*		*66 - 120*		*09/17/14 13:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*78*		*63 - 129*		*09/17/14 13:14*	*1*

Client Sample ID: WSP-4-091614
Date Collected: 09/16/14 11:10
Date Received: 09/17/14 07:50

Lab Sample ID: 240-41962-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28	ug/L			09/17/14 13:36	1
1,1,1-Trichloroethane	0.22	U	1.0	0.22	ug/L			09/17/14 13:36	1
1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22	ug/L			09/17/14 13:36	1
1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37	ug/L			09/17/14 13:36	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/17/14 13:36	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			09/17/14 13:36	1
1,1-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/17/14 13:36	1
1,2,3-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/17/14 13:36	1
1,2,3-Trichloropropane	0.30	U	1.0	0.30	ug/L			09/17/14 13:36	1
1,2,3-Trimethylbenzene	0.47	U	5.0	0.47	ug/L			09/17/14 13:36	1
1,2,4-Trichlorobenzene	0.32	U	1.0	0.32	ug/L			09/17/14 13:36	1
1,2,4-Trimethylbenzene	0.41	U	1.0	0.41	ug/L			09/17/14 13:36	1
1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82	ug/L			09/17/14 13:36	1
1,2-Dichlorobenzene	0.17	U	1.0	0.17	ug/L			09/17/14 13:36	1

Preliminary Data

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Client Sample ID: WSP-4-091614
Date Collected: 09/16/14 11:10
Date Received: 09/17/14 07:50

Lab Sample ID: 240-41962-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	0.20	U	1.0	0.20	ug/L			09/17/14 13:36	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/17/14 13:36	1
1,3-Dichlorobenzene	0.17	U	1.0	0.17	ug/L			09/17/14 13:36	1
1,3-Dichloropropane	0.18	U	1.0	0.18	ug/L			09/17/14 13:36	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			09/17/14 13:36	1
2,2-Dichloropropane	0.26	U	1.0	0.26	ug/L			09/17/14 13:36	1
2-Butanone (MEK)	4.1	U	10	4.1	ug/L			09/17/14 13:36	1
2-Chloroethyl vinyl ether	1.2	U *	10	1.2	ug/L			09/17/14 13:36	1
2-Chlorotoluene	0.20	U	1.0	0.20	ug/L			09/17/14 13:36	1
2-Hexanone	3.9	U	10	3.9	ug/L			09/17/14 13:36	1
4-Chlorotoluene	0.22	U	1.0	0.22	ug/L			09/17/14 13:36	1
4-Isopropyltoluene	0.43	U	1.0	0.43	ug/L			09/17/14 13:36	1
4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6	ug/L			09/17/14 13:36	1
Acetone	3.4	U	10	3.4	ug/L			09/17/14 13:36	1
Benzene	0.24	U	1.0	0.24	ug/L			09/17/14 13:36	1
Bromobenzene	0.12	U	1.0	0.12	ug/L			09/17/14 13:36	1
Bromoform	0.56	U	1.0	0.56	ug/L			09/17/14 13:36	1
Bromomethane	0.63	U	1.0	0.63	ug/L			09/17/14 13:36	1
Carbon disulfide	0.28	U	1.0	0.28	ug/L			09/17/14 13:36	1
Carbon tetrachloride	0.17	U	1.0	0.17	ug/L			09/17/14 13:36	1
Chlorobenzene	0.19	U	1.0	0.19	ug/L			09/17/14 13:36	1
Chlorodibromomethane	0.43	U	1.0	0.43	ug/L			09/17/14 13:36	1
Chloroethane	0.33	U	1.0	0.33	ug/L			09/17/14 13:36	1
Chloroform	0.21	U	1.0	0.21	ug/L			09/17/14 13:36	1
Chloromethane	0.44	U	1.0	0.44	ug/L			09/17/14 13:36	1
cis-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			09/17/14 13:36	1
cis-1,3-Dichloropropene	0.46	U	1.0	0.46	ug/L			09/17/14 13:36	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			09/17/14 13:36	1
Bromochloromethane	0.25	U	1.0	0.25	ug/L			09/17/14 13:36	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	ug/L			09/17/14 13:36	1
Bromodichloromethane	0.15	U	1.0	0.15	ug/L			09/17/14 13:36	1
tert-Butyl alcohol	8.7	U	50	8.7	ug/L			09/17/14 13:36	1
Ethylbenzene	0.23	U	1.0	0.23	ug/L			09/17/14 13:36	1
Hexachlorobutadiene	0.35	U	1.0	0.35	ug/L			09/17/14 13:36	1
Diisopropyl ether	0.19	U	10	0.19	ug/L			09/17/14 13:36	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			09/17/14 13:36	1
Methyl tert-butyl ether	0.16	U	1.0	0.16	ug/L			09/17/14 13:36	1
Methylene Chloride	0.28	U	1.0	0.28	ug/L			09/17/14 13:36	1
m-Xylene & p-Xylene	0.22	U	2.0	0.22	ug/L			09/17/14 13:36	1
Naphthalene	0.45	U	1.0	0.45	ug/L			09/17/14 13:36	1
n-Butylbenzene	0.22	U	1.0	0.22	ug/L			09/17/14 13:36	1
N-Propylbenzene	0.40	U	1.0	0.40	ug/L			09/17/14 13:36	1
o-Xylene	0.21	U	1.0	0.21	ug/L			09/17/14 13:36	1
sec-Butylbenzene	0.48	U	1.0	0.48	ug/L			09/17/14 13:36	1
Styrene	0.45	U	1.0	0.45	ug/L			09/17/14 13:36	1
Tert-amyl methyl ether	0.16	U	5.0	0.16	ug/L			09/17/14 13:36	1
Ethyl tert-butyl ether	0.20	U	5.0	0.20	ug/L			09/17/14 13:36	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			09/17/14 13:36	1
Toluene	0.22	U	1.0	0.22	ug/L			09/17/14 13:36	1

Preliminary Data

Client Sample ID: WSP-4-091614 — **Lab Sample ID: 240-41962-2**
Date Collected: 09/16/14 11:10 — **Matrix: Water**
Date Received: 09/17/14 07:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/17/14 13:36	1
trans-1,3-Dichloropropene	0.56	U	1.0	0.56	ug/L			09/17/14 13:36	1
Trichloroethene	0.15	U	1.0	0.15	ug/L			09/17/14 13:36	1
Trichlorofluoromethane	0.49	U	1.0	0.49	ug/L			09/17/14 13:36	1
Vinyl acetate	0.41	U	2.0	0.41	ug/L			09/17/14 13:36	1
Vinyl chloride	0.29	U	1.0	0.29	ug/L			09/17/14 13:36	1
Xylenes, Total	0.43	U	2.0	0.43	ug/L			09/17/14 13:36	1
tert-Butylbenzene	0.41	U	1.0	0.41	ug/L			09/17/14 13:36	1
1,2-Dibromoethane	0.19	U	1.0	0.19	ug/L			09/17/14 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*82*		*74 - 120*		*09/17/14 13:36*	*1*
Dibromofluoromethane (Surr)	*90*		*75 - 121*		*09/17/14 13:36*	*1*
4-Bromofluorobenzene (Surr)	*78*		*66 - 120*		*09/17/14 13:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*80*		*63 - 129*		*09/17/14 13:36*	*1*

Client Sample ID: FRT-1-091614 — **Lab Sample ID: 240-41962-3**
Date Collected: 09/16/14 11:15 — **Matrix: Water**
Date Received: 09/17/14 07:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28	ug/L			09/17/14 13:59	1
1,1,1-Trichloroethane	0.22	U	1.0	0.22	ug/L			09/17/14 13:59	1
1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22	ug/L			09/17/14 13:59	1
1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37	ug/L			09/17/14 13:59	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/17/14 13:59	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			09/17/14 13:59	1
1,1-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/17/14 13:59	1
1,2,3-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/17/14 13:59	1
1,2,3-Trichloropropane	0.30	U	1.0	0.30	ug/L			09/17/14 13:59	1
1,2,3-Trimethylbenzene	0.47	U	5.0	0.47	ug/L			09/17/14 13:59	1
1,2,4-Trichlorobenzene	0.32	U	1.0	0.32	ug/L			09/17/14 13:59	1
1,2,4-Trimethylbenzene	0.41	U	1.0	0.41	ug/L			09/17/14 13:59	1
1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82	ug/L			09/17/14 13:59	1
1,2-Dichlorobenzene	0.17	U	1.0	0.17	ug/L			09/17/14 13:59	1
1,2-Dichloroethane	0.20	U	1.0	0.20	ug/L			09/17/14 13:59	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/17/14 13:59	1
1,3-Dichlorobenzene	0.17	U	1.0	0.17	ug/L			09/17/14 13:59	1
1,3-Dichloropropane	0.18	U	1.0	0.18	ug/L			09/17/14 13:59	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			09/17/14 13:59	1
2,2-Dichloropropane	0.26	U	1.0	0.26	ug/L			09/17/14 13:59	1
2-Butanone (MEK)	4.1	U	10	4.1	ug/L			09/17/14 13:59	1
2-Chloroethyl vinyl ether	1.2	U *	10	1.2	ug/L			09/17/14 13:59	1
2-Chlorotoluene	0.20	U	1.0	0.20	ug/L			09/17/14 13:59	1
2-Hexanone	3.9	U	10	3.9	ug/L			09/17/14 13:59	1
4-Chlorotoluene	0.22	U	1.0	0.22	ug/L			09/17/14 13:59	1
4-Isopropyltoluene	0.43	U	1.0	0.43	ug/L			09/17/14 13:59	1
4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6	ug/L			09/17/14 13:59	1
Acetone	3.4	U	10	3.4	ug/L			09/17/14 13:59	1

Preliminary Data

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Client Sample ID: FRT-1-091614
Date Collected: 09/16/14 11:15
Date Received: 09/17/14 07:50

Lab Sample ID: 240-41962-3
Matrix: Water

Preliminary Data

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.24	U	1.0	0.24	ug/L			09/17/14 13:59	1
Bromobenzene	0.12	U	1.0	0.12	ug/L			09/17/14 13:59	1
Bromoform	0.56	U	1.0	0.56	ug/L			09/17/14 13:59	1
Bromomethane	0.63	U	1.0	0.63	ug/L			09/17/14 13:59	1
Carbon disulfide	0.28	U	1.0	0.28	ug/L			09/17/14 13:59	1
Carbon tetrachloride	0.17	U	1.0	0.17	ug/L			09/17/14 13:59	1
Chlorobenzene	0.19	U	1.0	0.19	ug/L			09/17/14 13:59	1
Chlorodibromomethane	0.43	U	1.0	0.43	ug/L			09/17/14 13:59	1
Chloroethane	0.33	U	1.0	0.33	ug/L			09/17/14 13:59	1
Chloroform	0.21	U	1.0	0.21	ug/L			09/17/14 13:59	1
Chloromethane	0.44	U	1.0	0.44	ug/L			09/17/14 13:59	1
cis-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			09/17/14 13:59	1
cis-1,3-Dichloropropene	0.46	U	1.0	0.46	ug/L			09/17/14 13:59	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			09/17/14 13:59	1
Bromochloromethane	0.25	U	1.0	0.25	ug/L			09/17/14 13:59	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	ug/L			09/17/14 13:59	1
Bromodichloromethane	0.15	U	1.0	0.15	ug/L			09/17/14 13:59	1
tert-Butyl alcohol	8.7	U	50	8.7	ug/L			09/17/14 13:59	1
Ethylbenzene	0.23	U	1.0	0.23	ug/L			09/17/14 13:59	1
Hexachlorobutadiene	0.35	U	1.0	0.35	ug/L			09/17/14 13:59	1
Diisopropyl ether	0.19	U	10	0.19	ug/L			09/17/14 13:59	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			09/17/14 13:59	1
Methyl tert-butyl ether	0.16	U	1.0	0.16	ug/L			09/17/14 13:59	1
Methylene Chloride	0.28	U	1.0	0.28	ug/L			09/17/14 13:59	1
m-Xylene & p-Xylene	0.22	U	2.0	0.22	ug/L			09/17/14 13:59	1
Naphthalene	0.45	U	1.0	0.45	ug/L			09/17/14 13:59	1
n-Butylbenzene	0.22	U	1.0	0.22	ug/L			09/17/14 13:59	1
N-Propylbenzene	0.40	U	1.0	0.40	ug/L			09/17/14 13:59	1
o-Xylene	0.21	U	1.0	0.21	ug/L			09/17/14 13:59	1
sec-Butylbenzene	0.48	U	1.0	0.48	ug/L			09/17/14 13:59	1
Styrene	0.45	U	1.0	0.45	ug/L			09/17/14 13:59	1
Tert-amyl methyl ether	0.16	U	5.0	0.16	ug/L			09/17/14 13:59	1
Ethyl tert-butyl ether	0.20	U	5.0	0.20	ug/L			09/17/14 13:59	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			09/17/14 13:59	1
Toluene	0.22	U	1.0	0.22	ug/L			09/17/14 13:59	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/17/14 13:59	1
trans-1,3-Dichloropropene	0.56	U	1.0	0.56	ug/L			09/17/14 13:59	1
Trichloroethene	0.15	U	1.0	0.15	ug/L			09/17/14 13:59	1
Trichlorofluoromethane	0.49	U	1.0	0.49	ug/L			09/17/14 13:59	1
Vinyl acetate	0.41	U	2.0	0.41	ug/L			09/17/14 13:59	1
Vinyl chloride	0.29	U	1.0	0.29	ug/L			09/17/14 13:59	1
Xylenes, Total	0.43	U	2.0	0.43	ug/L			09/17/14 13:59	1
tert-Butylbenzene	0.41	U	1.0	0.41	ug/L			09/17/14 13:59	1
1,2-Dibromoethane	0.19	U	1.0	0.19	ug/L			09/17/14 13:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*82*		*74 - 120*		*09/17/14 13:59*	*1*
Dibromofluoromethane (Surr)	*92*		*75 - 121*		*09/17/14 13:59*	*1*
4-Bromofluorobenzene (Surr)	*78*		*66 - 120*		*09/17/14 13:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*82*		*63 - 129*		*09/17/14 13:59*	*1*

Surrogate Summary

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	DBFM	BFB	12DCE
Lab Sample ID	Client Sample ID	(74-120)	(75-121)	(66-120)	(63-129)
240-41962-1	TB-091614	79	87	75	78
240-41962-2	WSP-4-091614	82	90	78	80
240-41962-3	FRT-1-091614	82	92	78	82
LCS 240-147384/4	Lab Control Sample	84	83	87	72
MB 240-147384/32	Method Blank	82	91	79	79

Surrogate Legend

TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)

Preliminary Data

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-147384/32
Matrix: Water
Analysis Batch: 147384

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28	ug/L			09/17/14 12:51	1
1,1,1-Trichloroethane	0.22	U	1.0	0.22	ug/L			09/17/14 12:51	1
1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22	ug/L			09/17/14 12:51	1
1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37	ug/L			09/17/14 12:51	1
1,1-Dichloroethane	0.26	U	1.0	0.26	ug/L			09/17/14 12:51	1
1,1-Dichloroethene	0.45	U	1.0	0.45	ug/L			09/17/14 12:51	1
1,1-Dichloropropene	0.22	U	1.0	0.22	ug/L			09/17/14 12:51	1
1,2,3-Trichlorobenzene	0.37	U	1.0	0.37	ug/L			09/17/14 12:51	1
1,2,3-Trichloropropane	0.30	U	1.0	0.30	ug/L			09/17/14 12:51	1
1,2,3-Trimethylbenzene	0.47	U	5.0	0.47	ug/L			09/17/14 12:51	1
1,2,4-Trichlorobenzene	0.32	U	1.0	0.32	ug/L			09/17/14 12:51	1
1,2,4-Trimethylbenzene	0.41	U	1.0	0.41	ug/L			09/17/14 12:51	1
1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82	ug/L			09/17/14 12:51	1
1,2-Dichlorobenzene	0.17	U	1.0	0.17	ug/L			09/17/14 12:51	1
1,2-Dichloroethane	0.20	U	1.0	0.20	ug/L			09/17/14 12:51	1
1,2-Dichloropropane	0.22	U	1.0	0.22	ug/L			09/17/14 12:51	1
1,3-Dichlorobenzene	0.17	U	1.0	0.17	ug/L			09/17/14 12:51	1
1,3-Dichloropropane	0.18	U	1.0	0.18	ug/L			09/17/14 12:51	1
1,4-Dichlorobenzene	0.16	U	1.0	0.16	ug/L			09/17/14 12:51	1
2,2-Dichloropropane	0.26	U	1.0	0.26	ug/L			09/17/14 12:51	1
2-Butanone (MEK)	4.1	U	10	4.1	ug/L			09/17/14 12:51	1
2-Chloroethyl vinyl ether	1.2	U	10	1.2	ug/L			09/17/14 12:51	1
2-Chlorotoluene	0.20	U	1.0	0.20	ug/L			09/17/14 12:51	1
2-Hexanone	3.9	U	10	3.9	ug/L			09/17/14 12:51	1
4-Chlorotoluene	0.22	U	1.0	0.22	ug/L			09/17/14 12:51	1
4-Isopropyltoluene	0.43	U	1.0	0.43	ug/L			09/17/14 12:51	1
4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6	ug/L			09/17/14 12:51	1
Acetone	3.4	U	10	3.4	ug/L			09/17/14 12:51	1
Benzene	0.24	U	1.0	0.24	ug/L			09/17/14 12:51	1
Bromobenzene	0.12	U	1.0	0.12	ug/L			09/17/14 12:51	1
Bromoform	0.56	U	1.0	0.56	ug/L			09/17/14 12:51	1
Bromomethane	0.63	U	1.0	0.63	ug/L			09/17/14 12:51	1
Carbon disulfide	0.28	U	1.0	0.28	ug/L			09/17/14 12:51	1
Carbon tetrachloride	0.17	U	1.0	0.17	ug/L			09/17/14 12:51	1
Chlorobenzene	0.19	U	1.0	0.19	ug/L			09/17/14 12:51	1
Chlorodibromomethane	0.43	U	1.0	0.43	ug/L			09/17/14 12:51	1
Chloroethane	0.33	U	1.0	0.33	ug/L			09/17/14 12:51	1
Chloroform	0.21	U	1.0	0.21	ug/L			09/17/14 12:51	1
Chloromethane	0.44	U	1.0	0.44	ug/L			09/17/14 12:51	1
cis-1,2-Dichloroethene	0.20	U	1.0	0.20	ug/L			09/17/14 12:51	1
cis-1,3-Dichloropropene	0.46	U	1.0	0.46	ug/L			09/17/14 12:51	1
Dibromomethane	0.17	U	1.0	0.17	ug/L			09/17/14 12:51	1
Bromochloromethane	0.25	U	1.0	0.25	ug/L			09/17/14 12:51	1
Dichlorodifluoromethane	0.50	U	1.0	0.50	ug/L			09/17/14 12:51	1
Bromodichloromethane	0.15	U	1.0	0.15	ug/L			09/17/14 12:51	1
tert-Butyl alcohol	8.7	U	50	8.7	ug/L			09/17/14 12:51	1
Ethylbenzene	0.23	U	1.0	0.23	ug/L			09/17/14 12:51	1
Hexachlorobutadiene	0.35	U	1.0	0.35	ug/L			09/17/14 12:51	1

Preliminary Data

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-147384/32
Matrix: Water
Analysis Batch: 147384

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diisopropyl ether	0.19	U	10	0.19	ug/L			09/17/14 12:51	1
Isopropylbenzene	0.35	U	1.0	0.35	ug/L			09/17/14 12:51	1
Methyl tert-butyl ether	0.16	U	1.0	0.16	ug/L			09/17/14 12:51	1
Methylene Chloride	0.28	U	1.0	0.28	ug/L			09/17/14 12:51	1
m-Xylene & p-Xylene	0.22	U	2.0	0.22	ug/L			09/17/14 12:51	1
Naphthalene	0.45	U	1.0	0.45	ug/L			09/17/14 12:51	1
n-Butylbenzene	0.22	U	1.0	0.22	ug/L			09/17/14 12:51	1
N-Propylbenzene	0.40	U	1.0	0.40	ug/L			09/17/14 12:51	1
o-Xylene	0.21	U	1.0	0.21	ug/L			09/17/14 12:51	1
sec-Butylbenzene	0.48	U	1.0	0.48	ug/L			09/17/14 12:51	1
Styrene	0.45	U	1.0	0.45	ug/L			09/17/14 12:51	1
Tert-amyl methyl ether	0.16	U	5.0	0.16	ug/L			09/17/14 12:51	1
Ethyl tert-butyl ether	0.20	U	5.0	0.20	ug/L			09/17/14 12:51	1
Tetrachloroethene	0.20	U	1.0	0.20	ug/L			09/17/14 12:51	1
Toluene	0.22	U	1.0	0.22	ug/L			09/17/14 12:51	1
trans-1,2-Dichloroethene	0.26	U	1.0	0.26	ug/L			09/17/14 12:51	1
trans-1,3-Dichloropropene	0.56	U	1.0	0.56	ug/L			09/17/14 12:51	1
Trichloroethene	0.15	U	1.0	0.15	ug/L			09/17/14 12:51	1
Trichlorofluoromethane	0.49	U	1.0	0.49	ug/L			09/17/14 12:51	1
Vinyl acetate	0.41	U	2.0	0.41	ug/L			09/17/14 12:51	1
Vinyl chloride	0.29	U	1.0	0.29	ug/L			09/17/14 12:51	1
Xylenes, Total	0.43	U	2.0	0.43	ug/L			09/17/14 12:51	1
tert-Butylbenzene	0.41	U	1.0	0.41	ug/L			09/17/14 12:51	1
1,2-Dibromoethane	0.19	U	1.0	0.19	ug/L			09/17/14 12:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*82*		*74 - 120*		*09/17/14 12:51*	*1*
Dibromofluoromethane (Surr)	*91*		*75 - 121*		*09/17/14 12:51*	*1*
4-Bromofluorobenzene (Surr)	*79*		*66 - 120*		*09/17/14 12:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*79*		*63 - 129*		*09/17/14 12:51*	*1*

Lab Sample ID: LCS 240-147384/4
Matrix: Water
Analysis Batch: 147384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	10.0	10.6		ug/L		106	72 - 120
1,1,1-Trichloroethane	10.0	10.2		ug/L		102	74 - 120
1,1,2,2-Tetrachloroethane	10.0	9.17		ug/L		92	68 - 120
1,1,2-Trichlorotrifluoroethane	10.0	10.2		ug/L		102	74 - 151
1,1-Dichloroethane	10.0	10.3		ug/L		103	80 - 120
1,1-Dichloroethene	10.0	9.99		ug/L		100	78 - 131
1,1-Dichloropropene	10.0	11.0		ug/L		110	80 - 120
1,2,3-Trichlorobenzene	10.0	9.30		ug/L		93	54 - 126
1,2,3-Trichloropropane	10.0	9.27		ug/L		93	73 - 129
1,2,4-Trichlorobenzene	10.0	9.04		ug/L		90	48 - 135
1,2,4-Trimethylbenzene	10.0	9.22		ug/L		92	76 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.0		ug/L		100	42 - 136

Preliminary Data

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-147384/4
Matrix: Water
Analysis Batch: 147384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	10.0	9.47		ug/L		95	80 - 120
1,2-Dichloroethane	10.0	9.12		ug/L		91	71 - 127
1,2-Dichloropropane	10.0	10.4		ug/L		104	80 - 120
1,3-Dichlorobenzene	10.0	9.62		ug/L		96	80 - 120
1,3-Dichloropropane	10.0	9.63		ug/L		96	79 - 120
1,4-Dichlorobenzene	10.0	9.83		ug/L		98	80 - 120
2,2-Dichloropropane	10.0	9.57		ug/L		96	50 - 129
2-Butanone (MEK)	20.0	17.0		ug/L		85	60 - 126
2-Chloroethyl vinyl ether	12.0	4.52	J *	ug/L		38	52 - 131
2-Chlorotoluene	10.0	9.48		ug/L		95	76 - 120
2-Hexanone	20.0	17.2		ug/L		86	55 - 133
4-Chlorotoluene	10.0	9.50		ug/L		95	77 - 120
4-Isopropyltoluene	10.0	9.22		ug/L		92	74 - 120
4-Methyl-2-pentanone (MIBK)	20.0	18.1		ug/L		90	63 - 128
Acetone	20.0	15.8		ug/L		79	43 - 136
Benzene	10.0	10.7		ug/L		107	80 - 120
Bromobenzene	10.0	10.1		ug/L		101	76 - 120
Bromoform	10.0	10.1		ug/L		101	40 - 131
Bromomethane	10.0	9.47		ug/L		95	11 - 185
Carbon disulfide	10.0	10.9		ug/L		109	62 - 142
Carbon tetrachloride	10.0	12.0		ug/L		120	66 - 128
Chlorobenzene	10.0	9.95		ug/L		99	80 - 120
Chlorodibromomethane	10.0	10.2		ug/L		102	64 - 120
Chloroethane	10.0	9.17		ug/L		92	25 - 153
Chloroform	10.0	9.84		ug/L		98	79 - 120
Chloromethane	10.0	9.11		ug/L		91	44 - 126
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	80 - 120
cis-1,3-Dichloropropene	10.0	10.3		ug/L		103	61 - 120
Dibromomethane	10.0	10.2		ug/L		102	80 - 120
Bromochloromethane	10.0	10.5		ug/L		105	77 - 120
Dichlorodifluoromethane	10.0	8.01		ug/L		80	19 - 129
Bromodichloromethane	10.0	9.98		ug/L		100	72 - 121
tert-Butyl alcohol	100	92.4		ug/L		92	70 - 130
Ethylbenzene	10.0	10.3		ug/L		103	80 - 120
Hexachlorobutadiene	10.0	9.58		ug/L		96	36 - 134
Isopropylbenzene	10.0	10.0		ug/L		100	75 - 120
Methyl tert-butyl ether	10.0	9.98		ug/L		100	52 - 144
Methylene Chloride	10.0	10.6		ug/L		106	66 - 131
m-Xylene & p-Xylene	10.0	10.5		ug/L		105	80 - 120
Naphthalene	10.0	8.29		ug/L		83	32 - 141
n-Butylbenzene	10.0	8.59		ug/L		86	66 - 125
N-Propylbenzene	10.0	9.39		ug/L		94	74 - 121
o-Xylene	10.0	10.2		ug/L		102	80 - 120
sec-Butylbenzene	10.0	9.09		ug/L		91	70 - 120
Styrene	10.0	10.7		ug/L		107	79 - 120
Tetrachloroethene	10.0	11.1		ug/L		111	79 - 120
Toluene	10.0	10.3		ug/L		103	80 - 120
trans-1,2-Dichloroethene	10.0	10.9		ug/L		109	80 - 120

Preliminary Data

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-147384/4
Matrix: Water
Analysis Batch: 147384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	10.0	10.5		ug/L		105	58 - 120
Trichloroethene	10.0	10.3		ug/L		103	76 - 120
Trichlorofluoromethane	10.0	8.92		ug/L		89	49 - 157
Vinyl acetate	8.00	6.43		ug/L		80	46 - 161
Vinyl chloride	10.0	8.97		ug/L		90	53 - 127
Xylenes, Total	20.0	20.7		ug/L		104	80 - 120
tert-Butylbenzene	10.0	8.88		ug/L		89	71 - 120
1,2-Dibromoethane	10.0	10.0		ug/L		100	79 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*84*		*74 - 120*
Dibromofluoromethane (Surr)	*83*		*75 - 121*
4-Bromofluorobenzene (Surr)	*87*		*66 - 120*
1,2-Dichloroethane-d4 (Surr)	*72*		*63 - 129*

Preliminary Data

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

GC/MS VOA

Analysis Batch: 147384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-41962-1	TB-091614	Total/NA	Water	8260C	
240-41962-2	WSP-4-091614	Total/NA	Water	8260C	
240-41962-3	FRT-1-091614	Total/NA	Water	8260C	
LCS 240-147384/4	Lab Control Sample	Total/NA	Water	8260C	
MB 240-147384/32	Method Blank	Total/NA	Water	8260C	

Preliminary Data

Lab Chronicle

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Client Sample ID: TB-091614

Lab Sample ID: 240-41962-1

Date Collected: 09/16/14 00:00

Matrix: Water

Date Received: 09/17/14 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	147384	09/17/14 13:14	LEE	TAL CAN

Client Sample ID: WSP-4-091614

Lab Sample ID: 240-41962-2

Date Collected: 09/16/14 11:10

Matrix: Water

Date Received: 09/17/14 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	147384	09/17/14 13:36	LEE	TAL CAN

Client Sample ID: FRT-1-091614

Lab Sample ID: 240-41962-3

Date Collected: 09/16/14 11:15

Matrix: Water

Date Received: 09/17/14 07:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	147384	09/17/14 13:59	LEE	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Preliminary Data

Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15
Connecticut	State Program	1	PH-0590	12-31-14
Florida	NELAP	4	E87225	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	01-31-15
Kentucky (UST)	State Program	4	58	06-30-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-14
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15
New York	NELAP	2	10975	03-31-15
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-15
West Virginia DEP	State Program	3	210	12-31-14
Wisconsin	State Program	5	999518190	08-31-14 *

Preliminary Data

* Certification renewal pending - certification considered valid.

Method Summary

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Preliminary Data

Sample Summary

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-41962-1	TB-091614	Water	09/16/14 00:00	09/17/14 07:50
240-41962-2	WSP-4-091614	Water	09/16/14 11:10	09/17/14 07:50
240-41962-3	FRT-1-091614	Water	09/16/14 11:15	09/17/14 07:50

Preliminary Data

TestAmerica Laboratories, Inc.

Preliminary Data

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS

240-41962 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

1.8

Chain of Custody Record

TestAmerica

Client Information	Sampler: Stu Cameron	Lab PM:	Carrier Tracking No(s):	COC No: 180-19478-4921.3
Client Contact: Mr. Stuart Cameron	Phone: (703)342-8389	E-Mail:		Page: Page 1 of 1
Company: Tetra Tech, Inc.				Job #: 12IC04770

Address: 20251 Century Blvd Suite 200	Due Date Requested:
City: Germantown	TAT Requested (days): 1 DAY
State, Zip: MD, 20874	PO #:
Phone: (703)342-8389	WO #:
Email: Stuart.Cameron@TetraTech.com	Project #:
Project Name: MRC Block E MPE System O&M	SSOW#:
Site: MRC, MD	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs-TCL	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
TB-091614	—	—	—	W			2		1 Day TAT
WSP-4-091614	9/16/14	1110	G	W			3		1 Day TAT
FRT-1-091614	9/16/14	1115	G	W			3		

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Lou Cam	9-16-14 / 1220	Tetra Tech	Gary Burns	9/17/14 0750	TA Cam
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Preliminary Data

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 41962

Client Tetra Tech Site Name MRC Block E

Cooler unpacked by: Jerry Burns

Cooler Received on 9/17/14 Opened on 9/17/14

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # ____ Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +2 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C	
IR GUN# 4	(CF -2 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C	☐ See Multiple Cooler Form
IR GUN# 5	(CF 0 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C	
IR GUN# 8	(CF 0 °C)	Observed Cooler Temp. 1.8 °C	Corrected Cooler Temp. 1.8 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2	Yes	No
-Were custody seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were custody seals on the bottle(s)?	Yes	No
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Did all bottles arrive in good condition (Unbroken)?	Yes	No
7. Could all bottle labels be reconciled with the COC?	Yes	No
8. Were correct bottle(s) used for the test(s) indicated?	Yes	No
9. Sufficient quantity received to perform indicated analyses?	Yes	No
10. Were sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC412469
11. Were VOAs on the COC?	Yes	No
12. Were air bubbles >6 mm in any VOA vials?	Yes	No NA
13. Was a trip blank present in the cooler(s)?	Yes	No

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: TB

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ 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 the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

Preliminary Data

Sample Prep and Holding Times Summary

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Client Sample ID: TB-091614

Lab Sample ID: 240-41962-1

Date Collected: 09/16/14 00:00
Matrix: Water
Date Received: 09/17/14 07:50

Batch Type	Batch Method	Wt/Vol Extracted	Units	Extract Volume	Units	Batch Number	Prepared or Analyzed	Holding Time Expires
Analysis	8260C	5	mL	5	mL	147384	09/17/14 13:14	09/30/14 23:59

Client Sample ID: WSP-4-091614

Lab Sample ID: 240-41962-2

Date Collected: 09/16/14 11:10
Matrix: Water
Date Received: 09/17/14 07:50

Batch Type	Batch Method	Wt/Vol Extracted	Units	Extract Volume	Units	Batch Number	Prepared or Analyzed	Holding Time Expires
Analysis	8260C	5	mL	5	mL	147384	09/17/14 13:36	09/30/14 23:59

Client Sample ID: FRT-1-091614

Lab Sample ID: 240-41962-3

Date Collected: 09/16/14 11:15
Matrix: Water
Date Received: 09/17/14 07:50

Batch Type	Batch Method	Wt/Vol Extracted	Units	Extract Volume	Units	Batch Number	Prepared or Analyzed	Holding Time Expires
Analysis	8260C	5	mL	5	mL	147384	09/17/14 13:59	09/30/14 23:59

Preliminary Data

Sample Preservation Summary

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM O&M

TestAmerica Job ID: 240-41962-1

Lab Sample ID	Client Sample ID	Matrix	Method	Container Type/Preservative
240-41962-1	TB-091614	Water		
			8260C	Voa Vial 40ml - Hydrochloric Acid
240-41962-2	WSP-4-091614	Water		
			8260C	Voa Vial 40ml - Hydrochloric Acid
240-41962-3	FRT-1-091614	Water		
			8260C	Voa Vial 40ml - Hydrochloric Acid

Preliminary Data

Verified By: _____ Date: 09/18/2014

9/17/2014 SAMPLING EVENT

ANALYTICAL REPORT

Job Number: 240-42033-1

Job Description: MRC BLOCK E MPE SYSTEM

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage

Preliminary Data

Designee for
John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
09/19/2014

cc: Samantha Brenner
Ms. Kelly Carper
Tobrena Sedlmyer

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Preliminary Data

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Preliminary Data

Preliminary Data

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-42033-1	WSP-4-091714	Water	09/17/2014 1235	09/18/2014 0750
240-42033-2	TB-091714	Water	09/17/2014 0000	09/18/2014 0750

Preliminary Data

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-42033-1	**WSP-4-091714**					
2-Butanone (MEK)		5.0	J	10	ug/L	8260C
Acetone		58		10	ug/L	8260C

Preliminary Data

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL CAN	SW846 8260C	
Purge and Trap	TAL CAN		SW846 5030C

Lab References:

TAL CAN = TestAmerica Canton

Method References:

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

Preliminary Data

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Method	Analyst	Analyst ID
SW846 8260C	Evans, Laura	LEE

Preliminary Data

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Client Sample ID: **WSP-4-091714**

Lab Sample ID: 240-42033-1 Date Sampled: 09/17/2014 1235
Client Matrix: Water Date Received: 09/18/2014 0750

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-147557	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ0929.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2014 1400			Final Weight/Volume:	5 mL
Prep Date:	09/18/2014 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	5.0	J	4.1	10
2-Chloroethyl vinyl ether	1.2	U *	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	58		3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Preliminary Data

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Client Sample ID: **WSP-4-091714**

Lab Sample ID: 240-42033-1 Date Sampled: 09/17/2014 1235
Client Matrix: Water Date Received: 09/18/2014 0750

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-147557	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ0929.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2014 1400			Final Weight/Volume:	5 mL
Prep Date:	09/18/2014 1400				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	79		74 - 120
Dibromofluoromethane (Surr)	97		75 - 121
4-Bromofluorobenzene (Surr)	77		66 - 120
1,2-Dichloroethane-d4 (Surr)	90		63 - 129

Preliminary Data

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Client Sample ID: **TB-091714**

Lab Sample ID: 240-42033-2 Date Sampled: 09/17/2014 0000
Client Matrix: Water Date Received: 09/18/2014 0750

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-147557	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ0927.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2014 1315			Final Weight/Volume:	5 mL
Prep Date:	09/18/2014 1315				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U *	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Preliminary Data

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Client Sample ID: **TB-091714**

Lab Sample ID: 240-42033-2 Date Sampled: 09/17/2014 0000
Client Matrix: Water Date Received: 09/18/2014 0750

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-147557	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ0927.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2014 1315			Final Weight/Volume:	5 mL
Prep Date:	09/18/2014 1315				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	79		74 - 120
Dibromofluoromethane (Surr)	94		75 - 121
4-Bromofluorobenzene (Surr)	81		66 - 120
1,2-Dichloroethane-d4 (Surr)	88		63 - 129

Preliminary Data

Client: Tetra Tech, Inc.

Job Number: 240-42033-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-42033-1	WSP-4-091714	97	90	79	77
240-42033-2	TB-091714	94	88	79	81
MB 240-147557/7		99	97	83	82
LCS 240-147557/4		84	76	85	87

Preliminary Data

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Method Blank - Batch: 240-147557

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-147557/7	Analysis Batch:	240-147557	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ0926.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2014 1252	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/18/2014 1252				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0

Preliminary Data

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Method Blank - Batch: 240-147557

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-147557/7	Analysis Batch:	240-147557	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ0926.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2014 1252	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/18/2014 1252				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
tert-Butyl alcohol	8.7	U	8.7	50
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	83	74 - 120
Dibromofluoromethane (Surr)	99	75 - 121
4-Bromofluorobenzene (Surr)	82	66 - 120
1,2-Dichloroethane-d4 (Surr)	97	63 - 129

Preliminary Data

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Lab Control Sample - Batch: 240-147557

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-147557/4	Analysis Batch:	240-147557	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ0921.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2014 1059	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/18/2014 1059				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	9.67	97	72 - 120	
1,1,1-Trichloroethane	10.0	10.0	100	74 - 120	
1,1,2,2-Tetrachloroethane	10.0	9.77	98	68 - 120	
1,1,2-Trichlorotrifluoroethane	10.0	10.9	109	74 - 151	
1,1-Dichloroethane	10.0	10.2	102	80 - 120	
1,1-Dichloroethene	10.0	9.99	100	78 - 131	
1,1-Dichloropropene	10.0	10.9	109	80 - 120	
1,2,3-Trichlorobenzene	10.0	9.13	91	54 - 126	
1,2,3-Trichloropropane	10.0	9.70	97	73 - 129	
1,2,4-Trichlorobenzene	10.0	8.79	88	48 - 135	
1,2,4-Trimethylbenzene	10.0	9.44	94	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	10.8	108	42 - 136	
1,2-Dichlorobenzene	10.0	9.59	96	80 - 120	
1,2-Dichloroethane	10.0	8.99	90	71 - 127	
1,2-Dichloropropane	10.0	9.91	99	80 - 120	
1,3-Dichlorobenzene	10.0	9.44	94	80 - 120	
1,3-Dichloropropane	10.0	9.45	95	79 - 120	
1,4-Dichlorobenzene	10.0	9.57	96	80 - 120	
2,2-Dichloropropane	10.0	9.38	94	50 - 129	
2-Butanone (MEK)	20.0	17.2	86	60 - 126	
2-Chloroethyl vinyl ether	12.0	4.67	39	52 - 131	J *
2-Chlorotoluene	10.0	9.76	98	76 - 120	
2-Hexanone	20.0	18.3	92	55 - 133	
4-Chlorotoluene	10.0	9.63	96	77 - 120	
4-Isopropyltoluene	10.0	9.22	92	74 - 120	
4-Methyl-2-pentanone (MIBK)	20.0	19.5	98	63 - 128	
Acetone	20.0	16.7	84	43 - 136	
Benzene	10.0	10.3	103	80 - 120	
Bromobenzene	10.0	10.1	101	76 - 120	
Bromoform	10.0	9.68	97	40 - 131	
Bromomethane	10.0	7.93	79	11 - 185	
Carbon disulfide	10.0	10.6	106	62 - 142	
Carbon tetrachloride	10.0	11.8	118	66 - 128	
Chlorobenzene	10.0	9.40	94	80 - 120	
Chlorodibromomethane	10.0	9.53	95	64 - 120	
Chloroethane	10.0	8.48	85	25 - 153	
Chloroform	10.0	9.52	95	79 - 120	
Chloromethane	10.0	9.29	93	44 - 126	
cis-1,2-Dichloroethene	10.0	10.0	100	80 - 120	
cis-1,3-Dichloropropene	10.0	10.0	100	61 - 120	
Dibromomethane	10.0	9.93	99	80 - 120	
Bromochloromethane	10.0	9.93	99	77 - 120	
Dichlorodifluoromethane	10.0	8.39	84	19 - 129	
Bromodichloromethane	10.0	9.63	96	72 - 121	
tert-Butyl alcohol	100	98.5	98	70 - 130	
Ethylbenzene	10.0	9.49	95	80 - 120	

Preliminary Data

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Lab Control Sample - Batch: 240-147557

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-147557/4	Analysis Batch:	240-147557	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ0921.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/18/2014 1059	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/18/2014 1059				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorobutadiene	10.0	8.95	89	36 - 134	
Isopropylbenzene	10.0	9.26	93	75 - 120	
Methyl tert-butyl ether	10.0	9.87	99	52 - 144	
Methylene Chloride	10.0	10.3	103	66 - 131	
m-Xylene & p-Xylene	10.0	9.69	97	80 - 120	
Naphthalene	10.0	8.94	89	32 - 141	
n-Butylbenzene	10.0	8.80	88	66 - 125	
N-Propylbenzene	10.0	9.58	96	74 - 121	
o-Xylene	10.0	9.28	93	80 - 120	
sec-Butylbenzene	10.0	9.34	93	70 - 120	
Styrene	10.0	9.83	98	79 - 120	
Tetrachloroethene	10.0	9.97	100	79 - 120	
Toluene	10.0	9.74	97	80 - 120	
trans-1,2-Dichloroethene	10.0	10.3	103	80 - 120	
trans-1,3-Dichloropropene	10.0	10.1	101	58 - 120	
Trichloroethene	10.0	9.83	98	76 - 120	
Trichlorofluoromethane	10.0	9.30	93	49 - 157	
Vinyl acetate	8.00	6.70	84	46 - 161	
Vinyl chloride	10.0	9.05	91	53 - 127	
Xylenes, Total	20.0	19.0	95	80 - 120	
tert-Butylbenzene	10.0	9.15	91	71 - 120	
1,2-Dibromoethane	10.0	9.57	96	79 - 120	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	85	74 - 120
Dibromofluoromethane (Surr)	84	75 - 121
4-Bromofluorobenzene (Surr)	87	66 - 120
1,2-Dichloroethane-d4 (Surr)	76	63 - 129

Preliminary Data

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Preliminary Data

Client: Tetra Tech, Inc. Job Number: 240-42033-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-147557					
LCS 240-147557/4	Lab Control Sample	T	Water	8260C	
MB 240-147557/7	Method Blank	T	Water	8260C	
240-42033-1	WSP-4-091714	T	Water	8260C	
240-42033-2	TB-091714	T	Water	8260C	

Report Basis
T = Total

Preliminary Data

Client: Tetra Tech, Inc. Job Number: 240-42033-1

Laboratory Chronicle

Lab ID: 240-42033-1 **Client ID:** WSP-4-091714

Sample Date/Time: 09/17/2014 12:35 Received Date/Time: 09/18/2014 07:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42033-B-1		240-147557		09/18/2014 14:00	1	TAL CAN	LEE
A:8260C	240-42033-B-1		240-147557		09/18/2014 14:00	1	TAL CAN	LEE

Lab ID: 240-42033-2 **Client ID:** TB-091714

Sample Date/Time: 09/17/2014 00:00 Received Date/Time: 09/18/2014 07:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42033-B-2		240-147557		09/18/2014 13:15	1	TAL CAN	LEE
A:8260C	240-42033-B-2		240-147557		09/18/2014 13:15	1	TAL CAN	LEE

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 240-147557/7		240-147557		09/18/2014 12:52	1	TAL CAN	LEE
A:8260C	MB 240-147557/7		240-147557		09/18/2014 12:52	1	TAL CAN	LEE

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 240-147557/4		240-147557		09/18/2014 10:59	1	TAL CAN	LEE
A:8260C	LCS 240-147557/4		240-147557		09/18/2014 10:59	1	TAL CAN	LEE

Lab References:
TAL CAN = TestAmerica Canton

Preliminary Data

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm50ICVss_00009	09/10/14	09/03/14	MEOH, Lot na	2 mL	vm50icvss_stk_00001	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50icvss_stk_00001	09/14/14	03/14/14	MEOH, Lot 0000049909	50 mL	VMstm530_00021	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VMstm530_00021	05/31/15	Ultra Scientific, Lot CJ-1280			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VM50IS_00042	09/30/14	06/24/14	MEOH, Lot 38701	50 mL	vm30241_00001	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18	restek, Lot A093261			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_stk_00060	10/10/14	04/10/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00017	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00061	01/05/15	07/07/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00017	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00064	09/09/14	09/02/14	MEOH, Lot na	3 mL	VMACROLSTD_00016	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00016	10/02/14	09/02/14	MEOH, Lot +182820000062345JF	20 mL	VM568720_00002	0.25 mL	Acrolein	250 ug/mL
..VM568720_00002	10/31/14	restek, Lot A0104246			(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASA9W_00026	09/09/14	09/02/14	MEOH, Lot NA	2 mL	VMFASA9_00003	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMFASA9_00003	02/05/15	08/05/14	MEOH, Lot +182820000062345JF	100 mL	vm568722S_00002	2.5 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723S_00001	2.5 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL

Preliminary Data

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-amyl methyl ether	50 ug/mL
..vm568722S_00002	06/30/15	restek, Lot A0100258			(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723S_00001	04/30/16	restek, Lot A0102749			(Purchased Reagent)		Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMFASGW_00052	09/06/14	08/30/14	MEOH, Lot NA	2 mL	VMFASG_00018	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00018	09/14/14	08/14/14	MEOH, Lot 0000062345	50 mL	VM567645S_00015	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00015	08/31/15	Restek, Lot A097497			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00055	09/20/14	09/13/14	MEOH, Lot NA	2 mL	VMFASG_00019	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00019	10/04/14	09/04/14	MEOH, Lot 0000062345	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15	Restek, Lot A099261			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00049	09/05/14	08/29/14	MEOH, Lot NA	2 mL	VMRFASP_00010	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL

Preliminary Data

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL

Preliminary Data

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00010	09/29/14	08/29/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00005	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL

Preliminary Data

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00009	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00007	1 mL	Vinyl acetate	40 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL

Preliminary Data

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00009	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00007	10/31/14		Restek, Lot A0102474		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMFASPW_00051	09/20/14	09/13/14	MEOH, Lot NA	2 mL	VMRFASP_00010	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL

Preliminary Data

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL

Preliminary Data

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00010	09/29/14	08/29/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00005	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL

Preliminary Data

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00009	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00007	1 mL	Vinyl acetate	40 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL

Preliminary Data

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00009	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00007	10/31/14		Restek, Lot A0102474		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRA9W_00071	09/06/14	08/30/14	MEOH, Lot NA	1 mL	VMRA9_00010	1 mL	Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL

Preliminary Data

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00010	10/29/14	07/29/14	MEOH, Lot 134079	50 mL	VM567648_00014	1.25 mL	Cyclohexanone	500 ug/mL
					vm567719_00020	2.5 mL	2-Methylnaphthalene	100 ug/mL
					vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
					VM568723_00001	1.25 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..VM567648_00014	02/29/16	Restek, Lot A093361			(Purchased Reagent)		Cyclohexanone	20000 ug/mL
..vm567719_00020	02/28/15	Restek, Lot A093359			(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
..vm568722_00002	06/30/15	restek, Lot A0100262			(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							1-Chlorohexane	2000 ug/mL
							2-Chloro-1,3-butadiene	2000 ug/mL
							2-Nitropropane	4000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL
..VM568723_00001	12/31/15	restek, Lot A099930			(Purchased Reagent)		Acetonitrile	20000 ug/mL
							Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRA9W_00073	09/20/14	09/13/14	MEOH, Lot NA	1 mL	VMRA9_00010	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00010	10/29/14	07/29/14	MEOH, Lot 134079	50 mL	vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723_00001	1.25 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..vm568722_00002	06/30/15	restek, Lot A0100262			(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723_00001	12/31/15	restek, Lot A099930			(Purchased Reagent)		Diisopropyl ether	2000 ug/mL

Preliminary Data

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRGAS_00068	09/09/14	09/02/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15	Restek, Lot A093341			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRGAS_00070	09/25/14	09/18/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15	Restek, Lot A093341			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRPRIMW_00078	09/09/14	09/02/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL

Preliminary Data

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL

Preliminary Data

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL

Preliminary Data

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL

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REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL

Preliminary Data

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00081	09/19/14	09/12/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL

Preliminary Data

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL

Preliminary Data

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL

Preliminary Data

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL

Preliminary Data

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL

Preliminary Data

Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MRC BLOCK E MPE SYSTEM

TestAmerica Job ID: 240-42033-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Preliminary Data

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

Preliminary Data

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

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 #
WSP-4-091714	240-42033-1	97	90	79	77
TB-091714	240-42033-2	94	88	79	81
	MB 240-147557/7	99	97	83	82
	LCS 240-147557/4	84	76	85	87

Preliminary Data

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ0921.D

Lab ID: LCS 240-147557/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	9.67	97	72-120	
1,1,1-Trichloroethane	10.0	10.0	100	74-120	
1,1,2,2-Tetrachloroethane	10.0	9.77	98	68-120	
1,1,2-Trichlorotrifluoroethane	10.0	10.9	109	74-151	
1,1-Dichloroethane	10.0	10.2	102	80-120	
1,1-Dichloroethene	10.0	9.99	100	78-131	
1,1-Dichloropropene	10.0	10.9	109	80-120	
1,2,3-Trichlorobenzene	10.0	9.13	91	54-126	
1,2,3-Trichloropropane	10.0	9.70	97	73-129	
1,2,4-Trichlorobenzene	10.0	8.79	88	48-135	
1,2,4-Trimethylbenzene	10.0	9.44	94	76-120	
1,2-Dibromo-3-Chloropropane	10.0	10.8	108	42-136	
1,2-Dichlorobenzene	10.0	9.59	96	80-120	
1,2-Dichloroethane	10.0	8.99	90	71-127	
1,2-Dichloropropane	10.0	9.91	99	80-120	
1,3-Dichlorobenzene	10.0	9.44	94	80-120	
1,3-Dichloropropane	10.0	9.45	95	79-120	
1,4-Dichlorobenzene	10.0	9.57	96	80-120	
2,2-Dichloropropane	10.0	9.38	94	50-129	
2-Butanone (MEK)	20.0	17.2	86	60-126	
2-Chloroethyl vinyl ether	12.0	4.67 J	39	52-131	*
2-Chlorotoluene	10.0	9.76	98	76-120	
2-Hexanone	20.0	18.3	92	55-133	
4-Chlorotoluene	10.0	9.63	96	77-120	
4-Isopropyltoluene	10.0	9.22	92	74-120	
4-Methyl-2-pentanone (MIBK)	20.0	19.5	98	63-128	
Acetone	20.0	16.7	84	43-136	
Benzene	10.0	10.3	103	80-120	
Bromobenzene	10.0	10.1	101	76-120	
Bromoform	10.0	9.68	97	40-131	
Bromomethane	10.0	7.93	79	11-185	
Carbon disulfide	10.0	10.6	106	62-142	
Carbon tetrachloride	10.0	11.8	118	66-128	
Chlorobenzene	10.0	9.40	94	80-120	
Chlorodibromomethane	10.0	9.53	95	64-120	
Chloroethane	10.0	8.48	85	25-153	
Chloroform	10.0	9.52	95	79-120	
Chloromethane	10.0	9.29	93	44-126	
cis-1,2-Dichloroethene	10.0	10.0	100	80-120	
cis-1,3-Dichloropropene	10.0	10.0	100	61-120	
Dibromomethane	10.0	9.93	99	80-120	
Bromochloromethane	10.0	9.93	99	77-120	

Preliminary Data

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ0921.D

Lab ID: LCS 240-147557/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	8.39	84	19-129	
Bromodichloromethane	10.0	9.63	96	72-121	
tert-Butyl alcohol	100	98.5	98	70-130	
Ethylbenzene	10.0	9.49	95	80-120	
Hexachlorobutadiene	10.0	8.95	89	36-134	
Isopropylbenzene	10.0	9.26	93	75-120	
Methyl tert-butyl ether	10.0	9.87	99	52-144	
Methylene Chloride	10.0	10.3	103	66-131	
m-Xylene & p-Xylene	10.0	9.69	97	80-120	
Naphthalene	10.0	8.94	89	32-141	
n-Butylbenzene	10.0	8.80	88	66-125	
N-Propylbenzene	10.0	9.58	96	74-121	
o-Xylene	10.0	9.28	93	80-120	
sec-Butylbenzene	10.0	9.34	93	70-120	
Styrene	10.0	9.83	98	79-120	
Tetrachloroethene	10.0	9.97	100	79-120	
Toluene	10.0	9.74	97	80-120	
trans-1,2-Dichloroethene	10.0	10.3	103	80-120	
trans-1,3-Dichloropropene	10.0	10.1	101	58-120	
Trichloroethene	10.0	9.83	98	76-120	
Trichlorofluoromethane	10.0	9.30	93	49-157	
Vinyl acetate	8.00	6.70	84	46-161	
Vinyl chloride	10.0	9.05	91	53-127	
Xylenes, Total	20.0	19.0	95	80-120	
tert-Butylbenzene	10.0	9.15	91	71-120	
1,2-Dibromoethane	10.0	9.57	96	79-120	

Preliminary Data

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Lab File ID: UXJ0926.D Lab Sample ID: MB 240-147557/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX11 Date Analyzed: 09/18/2014 12:52

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 240-147557/4	UXJ0921.D	09/18/2014 10:59
TB-091714	240-42033-2	UXJ0927.D	09/18/2014 13:15
WSP-4-091714	240-42033-1	UXJ0929.D	09/18/2014 14:00

Preliminary Data

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Lab File ID: BFB904.D BFB Injection Date: 09/04/2014

Instrument ID: A3UX11 BFB Injection Time: 09:27

Analysis Batch No.: 145573

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	48.1	
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	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	88.0	
175	5.0 - 9.0 % of mass 174	6.5	(7.4)1
176	95.0 - 101.0 % of mass 174	83.8	(95.3)1
177	5.0 - 9.0 % of mass 176	5.1	(6.0)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 240-145573/2	UXJ0622.D	09/04/2014	09:56
	STD8260 240-145573/3	UXJ0623.D	09/04/2014	10:19
	STD8260 240-145573/4	UXJ0624.D	09/04/2014	10:41
	STD8260 240-145573/5	UXJ0625.D	09/04/2014	11:03
	STD8260 240-145573/6	UXJ0626.D	09/04/2014	11:25
	STD8260 240-145573/7	UXJ0627.D	09/04/2014	11:48
	STD6 240-145573/8	UXJ0628.D	09/04/2014	12:11
	STD5 240-145573/9	UXJ0629.D	09/04/2014	12:33
	STD4 240-145573/10	UXJ0630.D	09/04/2014	12:56
	STD3 240-145573/11	UXJ0631.D	09/04/2014	13:18
	STD2 240-145573/12	UXJ0632.D	09/04/2014	13:41
	STD1 240-145573/13	UXJ0633.D	09/04/2014	14:04
	ICV 240-145573/14	UXJ0634.D	09/04/2014	14:30
	ICV 240-145573/15	UXJ0635.D	09/04/2014	14:53

Preliminary Data

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Lab File ID: BFB918C.D BFB Injection Date: 09/18/2014

Instrument ID: A3UX11 BFB Injection Time: 10:13

Analysis Batch No.: 147557

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.1	
75	30.0 - 60.0 % of mass 95	43.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	90.4	
175	5.0 - 9.0 % of mass 174	6.4	(7.0)1
176	95.0 - 101.0 % of mass 174	88.5	(97.9)1
177	5.0 - 9.0 % of mass 176	5.8	(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 240-147557/2	UXJ0920.D	09/18/2014	10:36
	LCS 240-147557/4	UXJ0921.D	09/18/2014	10:59
	CCV 240-147557/3	UXJ0923.D	09/18/2014	11:45
	MB 240-147557/7	UXJ0926.D	09/18/2014	12:52
TB-091714	240-42033-2	UXJ0927.D	09/18/2014	13:15
WSP-4-091714	240-42033-1	UXJ0929.D	09/18/2014	14:00

Preliminary Data

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Sample No.: STD8260 240-145573/4 Date Analyzed: 09/04/2014 10:41

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ0624.D Heated Purge: (Y/N) N

Calibration ID: 24057

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1612817	5.37	964884	8.05	384586	10.29
UPPER LIMIT		3225634	5.87	1929768	8.55	769172	10.79
LOWER LIMIT		806409	4.87	482442	7.55	192293	9.79
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-145573/14		1527527	5.37	926655	8.05	371854	10.29
ICV 240-145573/15		1501687	5.37	914341	8.05	328255	10.29
CCVIS 240-147557/2		1768403	5.37	1115054	8.05	437328	10.29

Preliminary Data

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 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Sample No.: CCVIS 240-147557/2 Date Analyzed: 09/18/2014 10:36

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ0920.D Heated Purge: (Y/N) N

Calibration ID: 24059

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1768403	5.37	1115054	8.05	437328	10.29
UPPER LIMIT		3536806	5.87	2230108	8.55	874656	10.79
LOWER LIMIT		884202	4.87	557527	7.55	218664	9.79
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-147557/4		1684147	5.37	1069379	8.05	389557	10.29
CCV 240-147557/3		1575052	5.37	1031595	8.05	335680	10.29
MB 240-147557/7		1286357	5.37	884634	8.05	291180	10.29
240-42033-2	TB-091714	1366052	5.37	919655	8.05	315253	10.29
240-42033-1	WSP-4-091714	1338722	5.37	932900	8.05	322163	10.29

Preliminary Data

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42033-1

SDG No.:

Client Sample ID: WSP-4-091714 | Lab Sample ID: 240-42033-1

Matrix: Water | Lab File ID: UXJ0929.D

Analysis Method: 8260C | Date Collected: 09/17/2014 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 09/18/2014 14:00

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.: 147557 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	5.0	J	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U *	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	58		10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

Preliminary Data

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42033-1

SDG No.:

Client Sample ID: WSP-4-091714 | Lab Sample ID: 240-42033-1

Matrix: Water | Lab File ID: UXJ0929.D

Analysis Method: 8260C | Date Collected: 09/17/2014 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 09/18/2014 14:00

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.: 147557 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

Preliminary Data

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42033-1

SDG No.:

Client Sample ID: WSP-4-091714 | Lab Sample ID: 240-42033-1

Matrix: Water | Lab File ID: UXJ0929.D

Analysis Method: 8260C | Date Collected: 09/17/2014 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 09/18/2014 14:00

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.: 147557 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	79		74-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
460-00-4	4-Bromofluorobenzene (Surr)	77		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		63-129

Preliminary Data

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42033-1

SDG No.:

Client Sample ID: TB-091714 | Lab Sample ID: 240-42033-2

Matrix: Water | Lab File ID: UXJ0927.D

Analysis Method: 8260C | Date Collected: 09/17/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/18/2014 13:15

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.: 147557 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U *	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

Preliminary Data

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42033-1

SDG No.:

Client Sample ID: TB-091714 | Lab Sample ID: 240-42033-2

Matrix: Water | Lab File ID: UXJ0927.D

Analysis Method: 8260C | Date Collected: 09/17/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/18/2014 13:15

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.: 147557 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

Preliminary Data

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Client Sample ID: TB-091714 Lab Sample ID: 240-42033-2

Matrix: Water Lab File ID: UXJ0927.D

Analysis Method: 8260C Date Collected: 09/17/2014 00:00

Sample wt/vol: 5(mL) Date Analyzed: 09/18/2014 13:15

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.: 147557 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	79		74-120
1868-53-7	Dibromofluoromethane (Surr)	94		75-121
460-00-4	4-Bromofluorobenzene (Surr)	81		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		63-129

Preliminary Data

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-145573/7	UXJ0627.D
Level 2	STD8260 240-145573/6	UXJ0626.D
Level 3	STD8260 240-145573/5	UXJ0625.D
Level 4	STD8260 240-145573/4	UXJ0624.D
Level 5	STD8260 240-145573/3	UXJ0623.D
Level 6	STD8260 240-145573/2	UXJ0622.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	0.2151 0.2188	0.2011	0.2087	0.2057	0.2180	Ave		0.2112			0.1000	3.4		15.0			
Chloromethane	0.2648 0.2193	0.2497	0.2373	0.2225	0.2257	Ave		0.2365			0.1000	7.5		15.0			
Vinyl chloride	0.2614 0.2368	0.2514	0.2462	0.2337	0.2424	Ave		0.2453			0.1000	4.1		15.0			
Bromomethane	0.1137 0.1191	0.1161	0.1089	0.1079	0.1190	Ave		0.1141			0.0500	4.3		15.0			
Chloroethane	0.1402 0.1367	0.1365	0.1301	0.1294	0.1371	Ave		0.1350				3.2		15.0			
Dichlorofluoromethane	0.2683 0.2778	0.2821	0.2565	0.2510	0.2757	Ave		0.2686				4.6		15.0			
Trichlorofluoromethane	0.2629 0.2532	0.2452	0.2488	0.2520	0.2642	Ave		0.2544			0.1000	3.0		15.0			
Ethyl ether	0.2848 0.2490	0.2772	0.2647	0.2548	0.2557	Ave		0.2644				5.3		15.0			
Acrolein	0.0272 0.0234	0.0249	0.0250	0.0245	0.0256	Ave		0.0251				5.0		15.0			
1,1-Dichloroethene	0.2530 0.2323	0.2419	0.2362	0.2292	0.2381	Ave		0.2384			0.1000	3.5		15.0			
1,1,2-Trichlorotrifluoroethane	0.1503 0.1375	0.1265	0.1314	0.1227	0.1358	Ave		0.1340			0.0500	7.2		15.0			
Acetone	0.1569 0.0510	0.1200	0.0787	0.0666	0.0639	Qua	0.1689	0.0669	0		0.0500				0.9990		0.9900
Iodomethane	0.3345 0.3067	0.3217	0.3218	0.3099	0.3218	Ave		0.3194				3.1		15.0			
Carbon disulfide	0.6715 0.5934	0.6342	0.6474	0.6080	0.6345	Ave		0.6315			0.1000	4.4		15.0			
3-Chloro-1-propene	0.2069 0.2371	0.2077	0.2045	0.2321	0.2138	Ave		0.2170				6.5		15.0			

Preliminary Data

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

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								
Methyl acetate	0.1779 0.1534	0.1693	0.1680	0.1613	0.1644	Ave		0.1657			0.1000	5.0		15.0			
Methylene Chloride	0.6426 0.2777	0.4499	0.3545	0.3043	0.2952	Lin1	0.3726	0.2709			0.1000				1.0000		0.9900
tert-Butyl alcohol	0.0136 0.0116	0.0147	0.0150	0.0131	0.0136	Ave		0.0136				9.0		15.0			
Acrylonitrile	0.0847 0.0823	0.0851	0.0855	0.0828	0.0864	Ave		0.0845				1.9		15.0			
Methyl tert-butyl ether	0.7818 0.7518	0.7418	0.7536	0.7421	0.7655	Ave		0.7561			0.1000	2.0		15.0			
trans-1,2-Dichloroethene	0.3365 0.3408	0.3569	0.3346	0.3244	0.3360	Ave		0.3382			0.1000	3.2		15.0			
Hexane	0.0762 0.0766	0.0598	0.0671	0.0645	0.0737	Ave		0.0696				9.9		15.0			
1,1-Dichloroethane	0.6056 0.5830	0.5888	0.5696	0.5651	0.5776	Ave		0.5816			0.1000	2.5		15.0			
Vinyl acetate	0.3627 0.3916	0.3768	0.3727	0.3770	0.3992	Ave		0.3800				3.5		15.0			
2-Butanone (MEK)	0.1250 0.0817	0.1091	0.0981	0.0922	0.0921	Ave		0.0997			0.0500	15.0		15.0			
cis-1,2-Dichloroethene	0.3561 0.3596	0.3662	0.3520	0.3383	0.3552	Ave		0.3546			0.1000	2.6		15.0			
2,2-Dichloropropane	0.2818 0.2720	0.2813	0.2829	0.2800	0.2850	Ave		0.2805				1.6		15.0			
Bromochloromethane	0.1715 0.1642	0.1735	0.1628	0.1621	0.1680	Ave		0.1670				2.9		15.0			
Tetrahydrofuran	0.0869 0.0525	0.0780	0.0642	0.0580	0.0587	Lin1	0.0826	0.0535							0.9970		0.9900
Chloroform	0.5867 0.5596	0.5728	0.5619	0.5468	0.5587	Ave		0.5644				2.4		15.0			
1,1,1-Trichloroethane	0.4077 0.3721	0.3799	0.3770	0.3679	0.3781	Ave		0.3805			0.1000	3.7		15.0			
Cyclohexane	0.3808 0.3926	0.3531	0.3729	0.3685	0.3974	Ave		0.3776			0.1000	4.3		15.0			
1,1-Dichloropropene	0.3946 0.4255	0.4049	0.4141	0.4058	0.4235	Ave		0.4114				2.9		15.0			
Carbon tetrachloride	0.3229 0.3207	0.2836	0.3021	0.2959	0.3098	Ave		0.3058			0.1000	4.9		15.0			
Isobutyl alcohol	0.0069 0.0066	0.0077	0.0082	0.0079	0.0084	Ave		0.0076				9.2		15.0			

Preliminary Data

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

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-Dichloroethane	0.4281 0.3985	0.4083	0.4131	0.4007	0.4073	Ave		0.4093			0.1000	2.6		15.0			
Benzene	1.4149 1.3951	1.3495	1.3371	1.3334	1.3754	Ave		1.3676			0.5000	2.4		15.0			
n-Heptane	0.0685 0.0772	0.0613	0.0662	0.0649	0.0726	Ave		0.0685				8.3		15.0			
Trichloroethene	0.3839 0.3569	0.3769	0.3577	0.3413	0.3505	Ave		0.3612			0.2000	4.5		15.0			
Methylcyclohexane	0.3973 0.4179	0.3427	0.3842	0.3679	0.4109	Ave		0.3868			0.1000	7.3		15.0			
1,2-Dichloropropane	0.3355 0.3205	0.3288	0.3246	0.3133	0.3241	Ave		0.3245			0.1000	2.3		15.0			
Dibromomethane	0.1733 0.1591	0.1642	0.1617	0.1621	0.1665	Ave		0.1645				3.0		15.0			
1,4-Dioxane	+++++ 0.0015	0.0021	0.0022	0.0023	0.0020	Ave		0.0020				15.0		15.0			
Bromodichloromethane	0.4106 0.4017	0.3809	0.3956	0.3804	0.3999	Ave		0.3949			0.1000	3.0		15.0			
2-Chloroethyl vinyl ether	0.1518 0.1626	0.1468	0.1636	0.1614	0.1724	Ave		0.1598				5.7		15.0			
cis-1,3-Dichloropropene	0.4652 0.4834	0.4584	0.4616	0.4577	0.4840	Ave		0.4684			0.1500	2.6		15.0			
4-Methyl-2-pentanone (MIBK)	0.1727 0.1647	0.1698	0.1731	0.1731	0.1788	Ave		0.1720			0.0500	2.7		15.0			
Toluene	2.1677 2.2283	2.1620	2.1758	2.2372	2.3381	Ave		2.2182			0.4000	3.0		15.0			
trans-1,3-Dichloropropene	0.5348 0.6030	0.5671	0.5776	0.6073	0.6492	Ave		0.5899			0.1000	6.6		15.0			
Ethyl methacrylate	0.3844 0.4450	0.3904	0.4185	0.4580	0.4866	Ave		0.4305				9.3		15.0			
1,1,2-Trichloroethane	0.4010 0.3669	0.3983	0.3851	0.3868	0.4095	Ave		0.3913			0.1000	3.8		15.0			
1,3-Dichloropropane	0.7105 0.6662	0.7253	0.7027	0.7139	0.7281	Ave		0.7078				3.2		15.0			
Tetrachloroethene	0.4291 0.3801	0.4070	0.3868	0.3974	0.4071	Ave		0.4012			0.2000	4.3		15.0			
2-Hexanone	0.1670 0.1546	0.1627	0.1698	0.1805	0.1872	Ave		0.1703			0.0500	7.0		15.0			
Chlorodibromomethane	0.3912 0.3897	0.3813	0.3815	0.3944	0.4136	Ave		0.3920				3.0		15.0			

Preliminary Data

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

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-Dibromoethane	0.3334 0.3201	0.3459	0.3398	0.3496	0.3572	Ave		0.3410				3.8		15.0			
Chlorobenzene	1.2519 1.1170	1.2086	1.1808	1.1648	1.2077	Ave		1.1885			0.3000	3.9		15.0			
1,1,1,2-Tetrachloroethane	0.4062 0.3771	0.3897	0.3829	0.3977	0.4114	Ave		0.3942				3.4		15.0			
Ethylbenzene	0.5795 0.6016	0.5998	0.5878	0.6160	0.6480	Ave		0.6055				4.0		15.0			
m-Xylene & p-Xylene	0.6669 0.7004	0.6615	0.6980	0.7351	0.7623	Ave		0.7041				5.5		15.0			
o-Xylene	0.6205 0.6279	0.6346	0.6267	0.6456	0.6754	Ave		0.6385				3.1		15.0			
Styrene	0.8568 1.0173	0.9222	0.9458	1.0017	1.0627	Ave		0.9678			0.3000	7.7		15.0			
Bromoform	0.1699 0.1791	0.1693	0.1783	0.1741	0.1966	Ave		0.1779			0.1000	5.6		15.0			
Isopropylbenzene	1.3201 1.4450	1.3300	1.4175	1.4256	1.5285	Ave		1.4111			0.1000	5.5		15.0			
1,1,2,2-Tetrachloroethane	0.7592 0.6885	0.7625	0.7597	0.7110	0.7366	Ave		0.7363			0.3000	4.2		15.0			
Bromobenzene	0.9946 0.9468	0.9685	0.9260	0.9042	0.9773	Ave		0.9529				3.5		15.0			
1,2,3-Trichloropropane	0.2695 0.2244	0.2591	0.2428	0.2265	0.2374	Ave		0.2433				7.4		15.0			
trans-1,4-Dichloro-2-butene	0.1731 0.1916	0.1893	0.1966	0.1963	0.2068	Ave		0.1923				5.8		15.0			
N-Propylbenzene	0.8976 0.9570	0.8687	0.8774	0.8974	0.9379	Ave		0.9060				3.8		15.0			
2-Chlorotoluene	0.8166 0.8338	0.7820	0.8383	0.8021	0.8496	Ave		0.8204				3.1		15.0			
1,3,5-Trimethylbenzene	2.2916 2.7765	2.2492	2.3690	2.5191	2.6873	Ave		2.4821				8.7		15.0			
4-Chlorotoluene	0.8089 0.8967	0.8568	0.8597	0.8595	0.9053	Ave		0.8645				4.0		15.0			
tert-Butylbenzene	2.1661 2.3969	2.3599	2.1022	2.1917	2.3248	Ave		2.2569				5.3		15.0			
1,2,4-Trimethylbenzene	2.4311 2.9407	2.4215	2.5588	2.6801	2.8660	Ave		2.6497				8.3		15.0			
sec-Butylbenzene	2.6646 3.2011	2.6612	2.8175	2.8681	3.0917	Ave		2.8840				7.7		15.0			

Preliminary Data

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

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								
1,3-Dichlorobenzene	1.8713 1.7463	1.7073	1.6883	1.6485	1.7206	Ave		1.7304			0.6000	4.4		15.0			
4-Isopropyltoluene	2.2825 2.9499	2.3025	2.4392	2.5815	2.8509	Ave		2.5677				11.0		15.0			
1,4-Dichlorobenzene	1.7920 1.7831	1.8163	1.7524	1.7032	1.8035	Ave		1.7751			0.5000	2.3		15.0			
n-Butylbenzene	2.0733 2.4379	1.9925	2.0182	2.0656	2.3292	Ave		2.1528				8.6		15.0			
1,2-Dichlorobenzene	1.7655 1.6956	1.6883	1.6898	1.6553	1.7192	Ave		1.7023			0.4000	2.2		15.0			
1,2-Dibromo-3-Chloropropane	0.1217 0.1260	0.1365	0.1372	0.1340	0.1419	Ave		0.1329			0.0500	5.7		15.0			
1,2,4-Trichlorobenzene	1.0068 0.8834	1.0134	0.9036	0.9251	0.9523	Ave		0.9474			0.2000	5.7		15.0			
Hexachlorobutadiene	0.5077 0.3955	0.4713	0.4354	0.4314	0.4388	Ave		0.4467				8.6		15.0			
Naphthalene	1.8883 1.8689	1.8140	1.9094	1.9660	2.1051	Ave		1.9253				5.3		15.0			
1,2,3-Trichlorobenzene	0.8531 0.7055	0.8763	0.7997	0.8429	0.8405	Ave		0.8197				7.5		15.0			
Dibromofluoromethane (Surr)	0.2959 0.3016	0.3105	0.2989	0.2924	0.3029	Ave		0.3003				2.1		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3663 0.3325	0.3681	0.3610	0.3557	0.3485	Ave		0.3553				3.7		15.0			
Toluene-d8 (Surr)	1.9117 1.9655	2.0232	1.9515	1.9942	2.0890	Ave		1.9892				3.1		15.0			
4-Bromofluorobenzene (Surr)	0.3950 0.4108	0.4133	0.4153	0.4186	0.4467	Ave		0.4166				4.1		15.0			

Preliminary Data

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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-145573/7	UXJ0627.D
Level 2	STD8260 240-145573/6	UXJ0626.D
Level 3	STD8260 240-145573/5	UXJ0625.D
Level 4	STD8260 240-145573/4	UXJ0624.D
Level 5	STD8260 240-145573/3	UXJ0623.D
Level 6	STD8260 240-145573/2	UXJ0622.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	31743 1482841	58610	155711	331818	705560	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	39086 1486153	72776	177010	358805	730669	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	38577 1605228	73271	183652	376915	784535	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	16776 807004	33851	81239	174063	385123	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	20700 926836	39786	97061	208677	443727	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	39605 1882740	82234	191344	404757	892440	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	38799 1716254	71473	185584	406424	855101	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	42035 1687685	80800	197500	410950	827804	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	20078 793176	36258	93107	197876	414024	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	37345 1574392	70518	176200	369686	770592	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	22183 932060	36872	98049	197869	439682	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Qua	46327 690797	69949	117389	214821	413385	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	49376 2078665	93773	240056	499871	1041714	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	99108 4022016	184853	483004	980527	2053870	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	30540 1607439	60547	152596	374308	692043	1.00 40.0	2.00	5.00	10.0	20.0
Methyl acetate	FB	Ave	131297 5199515	246690	626718	1301078	2660562	5.00 200	10.0	25.0	50.0	100

Preliminary Data

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methylene Chloride	FB	Lin1	94855 1882017	131146	264450	490859	955527	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butyl alcohol	FB	Ave	20111 783780	42824	111867	211326	440217	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	125079 5579222	248097	637808	1336132	2795278	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	115401 5095918	216226	562244	1196792	2477596	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	49670 2309942	104040	249657	523140	1087670	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	11248 519469	17431	50027	103964	238392	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	89381 3951806	171615	424950	911364	1869684	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	51398 2548161	105443	266919	583640	1240543	0.960 38.4	1.92	4.80	9.60	19.2
2-Butanone (MEK)	FB	Ave	36891 1107193	63585	146381	297250	596060	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	52566 2437331	106729	262632	545638	1149789	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	41594 1843507	82006	211067	451547	922563	1.00 40.0	2.00	5.00	10.0	20.0
Bromochloromethane	FB	Ave	25315 1113323	50579	121439	261386	543789	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Lin1	25649 712125	45453	95752	186976	379697	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	86595 3792953	166947	419161	881961	1808401	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	60173 2522123	110720	281264	593434	1223914	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	56211 2661181	102921	278232	594301	1286420	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	58248 2884089	118026	308964	654541	1370871	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	47659 2173493	82671	225397	477298	1002671	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBZ	Ave	15913 702426	34309	95484	189706	403474	25.0 1000	50.0	125	250	500
1,2-Dichloroethane	FB	Ave	63194 2701145	118999	308192	646185	1318368	1.00 40.0	2.00	5.00	10.0	20.0
Benzene	FB	Ave	208847 9456176	393355	997506	2150459	4451727	1.00 40.0	2.00	5.00	10.0	20.0

Preliminary Data

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Heptane	FB	Ave	10115 523384	17870	49414	104687	235038	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	56660 2418922	109867	266865	550454	1134496	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	58650 2832954	99881	286620	593293	1330071	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	49520 2172733	95832	242166	505347	1049011	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	25579 1078705	47870	120617	261499	538795	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	+++++ 203837	12512	32840	73350	128430	+++++ 800	40.0	100	200	400
Bromodichloromethane	FB	Ave	60610 2722978	111011	295165	613595	1294283	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	44799 2204388	85579	244102	520650	1116033	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	68666 3276426	133616	344351	738203	1566610	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	50987 2232308	99012	258253	558383	1157627	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	198933 9416846	385294	1008626	2158645	4491292	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	49084 2548333	101073	267772	585979	1247006	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	35281 1880703	69578	193983	441887	934740	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	36799 1550630	70982	178508	373197	786642	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	65207 2815287	129265	325759	688862	1398620	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	39379 1606504	72524	179284	383457	782041	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	30659 1307093	57996	157420	348399	719096	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Ave	35905 1647010	67956	176827	380529	794533	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	30597 1352774	61649	157501	337282	686183	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	114895 4720464	215379	547362	1123893	2319897	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	37274 1593757	69451	177484	383765	790340	1.00 40.0	2.00	5.00	10.0	20.0

Preliminary Data

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethylbenzene	CBZ	Ave	53185 2542607	106887	272462	594367	1244778	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	61206 2960115	117892	323557	709304	1464364	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	56945 2653430	113095	290535	622923	1297407	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	78630 4299379	164339	438436	966540	2041365	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	15592 757094	30173	82664	167974	377638	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	121152 6106473	237019	657115	1375567	2936152	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	26255 1130835	52371	138435	273446	577094	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	34397 1555009	66520	168738	347732	765631	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	9320 368609	17798	44236	87116	185996	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	5987 314735	13002	35830	75503	161992	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	31043 1571766	59670	159874	345134	734754	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	28240 1369349	53712	152760	308471	665553	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	79251 4560130	154490	431692	968806	2105317	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	27974 1472754	58851	156651	330562	709252	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	74911 3936567	162089	383059	842911	1821313	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	84073 4829767	166323	466268	1030710	2245250	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	92150 5257490	182787	513403	1103050	2422058	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	64715 2868073	117269	307647	633988	1347928	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	78936 4844840	158147	444471	992791	2233460	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	61973 2928561	124753	319329	655010	1412860	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	71701 4003965	136857	367760	794382	1824704	1.00 40.0	2.00	5.00	10.0	20.0

Preliminary Data

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	61057 2784839	115961	307915	636599	1346881	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	4208 206936	9373	24995	51521	111146	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	34818 1450894	69607	164664	355775	746036	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	17556 649556	32371	79347	165895	343774	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	65304 3069423	124596	347926	756082	1649138	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	29504 1158700	60191	145728	324177	658472	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	43671 2044310	90510	222953	471544	980264	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	54060 2253799	107282	269315	573686	1127942	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	175444 8306310	360566	904659	1924172	4012811	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	36248 1736234	73653	192518	403888	858098	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

Preliminary Data

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 12:11 Calibration End Date: 09/04/2014 14:04 Calibration ID: 24059

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-145573/13	UXJ0633.D
Level 2	STD2 240-145573/12	UXJ0632.D
Level 3	STD3 240-145573/11	UXJ0631.D
Level 4	STD4 240-145573/10	UXJ0630.D
Level 5	STD5 240-145573/9	UXJ0629.D
Level 6	STD6 240-145573/8	UXJ0628.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								
Acetonitrile	0.0306 0.0215	0.0234	0.0222	0.0222	0.0229	Ave		0.0238				14.0		15.0			
Diisopropyl ether	0.2937 0.2949	0.2698	0.2934	0.2864	0.3005	Ave		0.2898				3.7		15.0			
2-Chloro-1,3-butadiene	0.4659 0.4848	0.4509	0.4774	0.4498	0.4840	Ave		0.4688				3.4		15.0			
Ethyl tert-butyl ether	0.8747 0.8768	0.8158	0.8545	0.8263	0.8806	Ave		0.8548				3.3		15.0			
Ethyl acetate	0.1093 0.0738	0.0874	0.0836	0.0773	0.0764	Ave		0.0846				15.0		15.0			
Propionitrile	0.0322 0.0293	0.0301	0.0301	0.0278	0.0299	Ave		0.0299				4.7		15.0			
Methacrylonitrile	0.1477 0.1509	0.1433	0.1472	0.1435	0.1514	Ave		0.1473				2.3		15.0			
Tert-amyl methyl ether	0.7665 0.8080	0.7235	0.7731	0.7532	0.8098	Ave		0.7723				4.3		15.0			
n-Butanol	0.0055 0.0055	0.0061	0.0062	0.0059	0.0066	Ave		0.0060				6.9		15.0			
Ethyl acrylate	0.2639 0.2909	0.2547	0.2716	0.2733	0.2923	Ave		0.2745				5.4		15.0			
Methyl methacrylate	0.1953 0.2127	0.1847	0.2002	0.1976	0.2117	Ave		0.2004				5.3		15.0			
2-Nitropropane	0.0559 0.0551	0.0523	0.0509	0.0516	0.0538	Ave		0.0533				3.8		15.0			
1-Chlorohexane	0.4438 0.5017	0.4413	0.4597	0.4406	0.5020	Ave		0.4648				6.4		15.0			
Cyclohexanone	0.0203 0.0200	0.0216	0.0230	0.0195	0.0223	Ave		0.0211				6.6		15.0			
1,2,3-Trimethylbenzene	2.4733 3.0223	2.3371	2.6769	2.5910	3.0652	Ave		2.6943				11.0		15.0			

Preliminary Data

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 12:11 Calibration End Date: 09/04/2014 14:04 Calibration ID: 24059

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								
1,3,5-Trichlorobenzene	1.1785 1.1351	1.1264	1.2015	1.1129	1.2304	Ave		1.1641				4.0		15.0			
2-Methylnaphthalene	0.4231 0.4761	0.4158	0.4191	0.4653	0.5445	Ave		0.4573				11.0		15.0			

Preliminary Data

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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 12:11 Calibration End Date: 09/04/2014 14:04 Calibration ID: 24059

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-145573/13	UXJ0633.D
Level 2	STD2 240-145573/12	UXJ0632.D
Level 3	STD3 240-145573/11	UXJ0631.D
Level 4	STD4 240-145573/10	UXJ0630.D
Level 5	STD5 240-145573/9	UXJ0629.D
Level 6	STD6 240-145573/8	UXJ0628.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	43405 1319839	67007	162536	336842	705565	10.0 400	20.0	50.0	100	200
Diisopropyl ether	FB	Ave	41645 1813400	77213	214759	434002	926840	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	66065 2981464	129030	349431	681721	1493053	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	124024 5391628	233464	625419	1252233	2716331	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	30984 907114	50017	122382	234353	471613	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	45605 1801762	86192	220655	421989	923505	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	209412 9281024	410198	1077585	2175518	4668670	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	108683 4968628	207052	565852	1141480	2497920	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	CBZ	Ave	11873 529776	26990	68863	136380	312270	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	37417 1789079	72879	198795	414255	901654	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	55376 2616373	105725	293095	598798	1305703	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	15854 678075	29916	74502	156551	332014	2.00 80.0	4.00	10.0	20.0	40.0
1-Chlorohexane	CBZ	Ave	38087 1925342	78531	205487	404822	949341	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Ave	6206 281497	12964	35786	65617	148453	10.0 400	20.0	50.0	100	200
1,2,3-Trimethylbenzene	DCB	Ave	75700 4246226	140582	415933	871182	2037154	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	36069 1594794	67755	186687	374216	817776	1.00 40.0	2.00	5.00	10.0	20.0

Preliminary Data

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42033-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 12:11 Calibration End Date: 09/04/2014 14:04 Calibration ID: 24059

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methylnaphthalene	DCB	Ave	25897 1337879	50022	130228	312909	723801	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:
Ave = Average ISTD

Preliminary Data

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Lab Sample ID: ICV 240-145573/14 Calibration Date: 09/04/2014 14:30

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ0634.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	0.2112	0.2128	0.1000	0.0101	0.0100	0.7	20.0
Chloromethane	Ave	0.2365	0.2283	0.1000	0.00965	0.0100	-3.5	20.0
Vinyl chloride	Ave	0.2453	0.2438	0.1000	0.00994	0.0100	-0.6	20.0
Bromomethane	Ave	0.1141	0.1150	0.0500	0.0101	0.0100	0.7	20.0
Chloroethane	Ave	0.1350	0.1338	0.0500	0.00991	0.0100	-0.9	20.0
Dichlorofluoromethane	Ave	0.2686	0.2586		0.00963	0.0100	-3.7	20.0
Trichlorofluoromethane	Ave	0.2544	0.2587	0.1000	0.0102	0.0100	1.7	20.0
Ethyl ether	Ave	0.2644	0.2719		0.0103	0.0100	2.8	20.0
Acrolein	Ave	0.0251	0.0410		0.0817	0.0500	63.3*	20.0
1,1-Dichloroethene	Ave	0.2384	0.2538	0.1000	0.0106	0.0100	6.5	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.1340	0.1382	0.0500	0.0103	0.0100	3.1	20.0
Acetone	Qua		0.0663	0.0500	0.0184	0.0200	-7.9	20.0
Iodomethane	Ave	0.3194	0.3761		0.0118	0.0100	17.7	20.0
Carbon disulfide	Ave	0.6315	0.7194	0.1000	0.0114	0.0100	13.9	20.0
3-Chloro-1-propene	Ave	0.2170	0.2144		0.00988	0.0100	-1.2	20.0
Methyl acetate	Ave	0.1657	0.1669	0.1000	0.0504	0.0500	0.7	20.0
Methylene Chloride	Lin1		0.3160	0.1000	0.0103	0.0100	2.9	20.0
tert-Butyl alcohol	Ave	0.0136	0.0133		0.0981	0.100	-1.9	20.0
Acrylonitrile	Ave	0.0845	0.0867		0.103	0.100	2.7	20.0
Methyl tert-butyl ether	Ave	0.7561	0.7775	0.1000	0.0103	0.0100	2.8	20.0
trans-1,2-Dichloroethene	Ave	0.3382	0.3540	0.1000	0.0105	0.0100	4.7	20.0
Hexane	Ave	0.0696	0.0716		0.0103	0.0100	2.9	20.0
1,1-Dichloroethane	Ave	0.5816	0.6142	0.1000	0.0106	0.0100	5.6	20.0
Vinyl acetate	Ave	0.3800	0.3553		0.00748	0.00800	-6.5	20.0
2-Butanone (MEK)	Ave	0.0997	0.0943	0.0500	0.0189	0.0200	-5.4	20.0
cis-1,2-Dichloroethene	Ave	0.3546	0.3616	0.1000	0.0102	0.0100	2.0	20.0
2,2-Dichloropropane	Ave	0.2805	0.2964		0.0106	0.0100	5.7	20.0
Bromochloromethane	Ave	0.1670	0.1692		0.0101	0.0100	1.3	20.0
Tetrahydrofuran	Lin1		0.0582		0.0202	0.0200	1.2	20.0
Chloroform	Ave	0.5644	0.5786	0.2000	0.0103	0.0100	2.5	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3977	0.1000	0.0105	0.0100	4.5	20.0
Cyclohexane	Ave	0.3776	0.3927	0.1000	0.0104	0.0100	4.0	20.0
1,1-Dichloropropene	Ave	0.4114	0.4719		0.0115	0.0100	14.7	20.0
Carbon tetrachloride	Ave	0.3058	0.3272	0.1000	0.0107	0.0100	7.0	20.0
Isobutyl alcohol	Ave	0.0076	0.0075		0.245	0.250	-2.2	20.0
1,2-Dichloroethane	Ave	0.4093	0.4235	0.1000	0.0103	0.0100	3.5	20.0
Benzene	Ave	1.368	1.399	0.5000	0.0102	0.0100	2.3	20.0
n-Heptane	Ave	0.0685	0.0710		0.0104	0.0100	3.7	20.0
Trichloroethene	Ave	0.3612	0.3708	0.2000	0.0103	0.0100	2.6	20.0
Methylcyclohexane	Ave	0.3868	0.3961	0.1000	0.0102	0.0100	2.4	20.0

Preliminary Data

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Lab Sample ID: ICV 240-145573/14 Calibration Date: 09/04/2014 14:30

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ0634.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-Dichloropropane	Ave	0.3245	0.3333	0.1000	0.0103	0.0100	2.7	20.0
Dibromomethane	Ave	0.1645	0.1761		0.0107	0.0100	7.1	20.0
1,4-Dioxane	Ave	0.0020	0.0017		0.169	0.200	-15.6	20.0
Bromodichloromethane	Ave	0.3949	0.4007	0.1000	0.0101	0.0100	1.5	20.0
2-Chloroethyl vinyl ether	Ave	0.1598	0.1630		0.0122	0.0120	2.0	20.0
cis-1,3-Dichloropropene	Ave	0.4684	0.5013	0.1500	0.0107	0.0100	7.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1720	0.1790	0.0500	0.0208	0.0200	4.1	20.0
Toluene	Ave	2.218	2.339	0.4000	0.0105	0.0100	5.4	20.0
trans-1,3-Dichloropropene	Ave	0.5899	0.6935	0.1000	0.0118	0.0100	17.6	20.0
Ethyl methacrylate	Ave	0.4305	0.5031		0.0117	0.0100	16.9	20.0
1,1,2-Trichloroethane	Ave	0.3913	0.4030	0.1000	0.0103	0.0100	3.0	20.0
1,3-Dichloropropane	Ave	0.7078	0.7382		0.0104	0.0100	4.3	20.0
Tetrachloroethene	Ave	0.4012	0.4096	0.2000	0.0102	0.0100	2.1	20.0
2-Hexanone	Ave	0.1703	0.1771	0.0500	0.0208	0.0200	4.0	20.0
Chlorodibromomethane	Ave	0.3920	0.4099		0.0105	0.0100	4.6	20.0
1,2-Dibromoethane	Ave	0.3410	0.3553		0.0104	0.0100	4.2	20.0
Chlorobenzene	Ave	1.188	1.243	0.3000	0.0105	0.0100	4.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3942	0.4070		0.0103	0.0100	3.3	20.0
Ethylbenzene	Ave	0.6055	0.6431		0.0106	0.0100	6.2	20.0
m-Xylene & p-Xylene	Ave	0.7041	0.7621		0.0108	0.0100	8.2	20.0
o-Xylene	Ave	0.6385	0.6687		0.0105	0.0100	4.7	20.0
Styrene	Ave	0.9678	1.066	0.3000	0.0110	0.0100	10.1	20.0
Bromoform	Ave	0.1779	0.1858	0.1000	0.0104	0.0100	4.4	20.0
Isopropylbenzene	Ave	1.411	1.508	0.1000	0.0107	0.0100	6.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7363	0.7282	0.3000	0.00989	0.0100	-1.1	20.0
Bromobenzene	Ave	0.9529	0.9661		0.0101	0.0100	1.4	20.0
1,2,3-Trichloropropane	Ave	0.2433	0.2442		0.0100	0.0100	0.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1923	0.2006		0.0104	0.0100	4.3	20.0
N-Propylbenzene	Ave	0.9060	0.9331		0.0103	0.0100	3.0	20.0
2-Chlorotoluene	Ave	0.8204	0.8680		0.0106	0.0100	5.8	20.0
1,3,5-Trimethylbenzene	Ave	2.482	2.588		0.0104	0.0100	4.2	20.0
4-Chlorotoluene	Ave	0.8645	0.8890		0.0103	0.0100	2.8	20.0
tert-Butylbenzene	Ave	2.257	2.259		0.0100	0.0100	0.1	20.0
1,2,4-Trimethylbenzene	Ave	2.650	2.717		0.0103	0.0100	2.6	20.0
sec-Butylbenzene	Ave	2.884	2.990		0.0104	0.0100	3.7	20.0
1,3-Dichlorobenzene	Ave	1.730	1.710	0.6000	0.00988	0.0100	-1.2	20.0
4-Isopropyltoluene	Ave	2.568	2.676		0.0104	0.0100	4.2	20.0
1,4-Dichlorobenzene	Ave	1.775	1.823	0.5000	0.0103	0.0100	2.7	20.0
n-Butylbenzene	Ave	2.153	2.184		0.0101	0.0100	1.5	20.0
1,2-Dichlorobenzene	Ave	1.702	1.730	0.4000	0.0102	0.0100	1.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1329	0.1395	0.0500	0.0105	0.0100	5.0	20.0

Preliminary Data

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Lab Sample ID: ICV 240-145573/14 Calibration Date: 09/04/2014 14:30

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ0634.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
1,2,4-Trichlorobenzene	Ave	0.9474	0.9102	0.2000	0.00961	0.0100	-3.9	20.0
Hexachlorobutadiene	Ave	0.4467	0.4097		0.00917	0.0100	-8.3	20.0
Naphthalene	Ave	1.925	1.889		0.00981	0.0100	-1.9	20.0
1,2,3-Trichlorobenzene	Ave	0.8197	0.7981		0.00974	0.0100	-2.6	20.0
Dibromofluoromethane (Surr)	Ave	0.3003	0.2916		0.00971	0.0100	-2.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3553	0.3411		0.00960	0.0100	-4.0	20.0
Toluene-d8 (Surr)	Ave	1.989	1.932		0.00971	0.0100	-2.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4166	0.4113		0.00987	0.0100	-1.3	20.0

Preliminary Data

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Lab Sample ID: ICV 240-145573/15 Calibration Date: 09/04/2014 14:53

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 12:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 14:04

Lab File ID: UXJ0635.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
Acetonitrile	Ave	0.0238	0.0233		0.0978	0.100	-2.2	20.0
Diisopropyl ether	Ave	0.2898	0.2975		0.0103	0.0100	2.7	20.0
2-Chloro-1,3-butadiene	Ave	0.4688	0.4744		0.0101	0.0100	1.2	20.0
Ethyl tert-butyl ether	Ave	0.8548	0.8596		0.0101	0.0100	0.6	20.0
Ethyl acetate	Ave	0.0846	0.1109		0.0262	0.0200	31.1*	20.0
Propionitrile	Ave	0.0299	0.0304		0.101	0.100	1.5	20.0
Methacrylonitrile	Ave	0.1473	0.1515		0.103	0.100	2.8	20.0
Tert-amyl methyl ether	Ave	0.7723	0.7933		0.0103	0.0100	2.7	20.0
n-Butanol	Ave	0.0060	0.0055		0.229	0.250	-8.4	20.0
Ethyl acrylate	Ave	0.2745	0.2819		0.0103	0.0100	2.7	20.0
Methyl methacrylate	Ave	0.2004	0.2062		0.0206	0.0200	2.9	20.0
2-Nitropropane	Ave	0.0533	0.0522		0.0196	0.0200	-2.1	20.0
1-Chlorohexane	Ave	0.4648	0.4776		0.0103	0.0100	2.7	20.0
Cyclohexanone	Ave	0.0211	0.0144		0.0683	0.100	-31.7*	20.0
1,2,3-Trimethylbenzene	Ave	2.694	2.667		0.00990	0.0100	-1.0	20.0
1,3,5-Trichlorobenzene	Ave	1.164	1.163		0.00999	0.0100	-0.0	20.0
2-Methylnaphthalene	Ave	0.4573	0.3707		0.0162	0.0200	-18.9	20.0

Preliminary Data

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Lab Sample ID: CCVIS 240-147557/2 Calibration Date: 09/18/2014 10:36

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ0920.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	0.2112	0.2030	0.1000	0.00961	0.0100	-3.9	20.0
Chloromethane	Ave	0.2365	0.2579	0.1000	0.0109	0.0100	9.0	20.0
Vinyl chloride	Ave	0.2453	0.2427	0.1000	0.00989	0.0100	-1.1	20.0
Bromomethane	Ave	0.1141	0.0988	0.0500	0.00866	0.0100	-13.4	20.0
Chloroethane	Ave	0.1350	0.1261	0.0500	0.00934	0.0100	-6.6	20.0
Dichlorofluoromethane	Ave	0.2686	0.2566		0.00955	0.0100	-4.5	20.0
Trichlorofluoromethane	Ave	0.2544	0.2211	0.1000	0.00869	0.0100	-13.1	20.0
Ethyl ether	Ave	0.2644	0.2453		0.00928	0.0100	-7.2	20.0
Acrolein	Ave	0.0251	0.0228		0.0454	0.0500	-9.3	20.0
1,1-Dichloroethene	Ave	0.2384	0.2278	0.1000	0.00955	0.0100	-4.5	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.1340	0.1296	0.0500	0.00967	0.0100	-3.3	20.0
Acetone	Qua		0.0705	0.0500	0.0199	0.0200	-0.6	20.0
Iodomethane	Ave	0.3194	0.2905		0.00909	0.0100	-9.1	20.0
Carbon disulfide	Ave	0.6315	0.5787	0.1000	0.00916	0.0100	-8.4	20.0
3-Chloro-1-propene	Ave	0.2170	0.2131		0.00982	0.0100	-1.8	20.0
Methyl acetate	Ave	0.1657	0.1549	0.1000	0.0467	0.0500	-6.5	20.0
Methylene Chloride	Lin1		0.3157	0.1000	0.0103	0.0100	2.8	20.0
tert-Butyl alcohol	Ave	0.0136	0.0125		0.0917	0.100	-8.3	20.0
Acrylonitrile	Ave	0.0845	0.0833		0.0986	0.100	-1.4	20.0
Methyl tert-butyl ether	Ave	0.7561	0.7486	0.1000	0.00990	0.0100	-1.0	20.0
trans-1,2-Dichloroethene	Ave	0.3382	0.3465	0.1000	0.0102	0.0100	2.5	20.0
Hexane	Ave	0.0696	0.0676		0.00970	0.0100	-3.0	20.0
1,1-Dichloroethane	Ave	0.5816	0.5848	0.1000	0.0101	0.0100	0.6	20.0
Vinyl acetate	Ave	0.3800	0.3480		0.00879	0.00960	-8.4	20.0
2-Butanone (MEK)	Ave	0.0997	0.0884	0.0500	0.0177	0.0200	-11.3	20.0
cis-1,2-Dichloroethene	Ave	0.3546	0.3651	0.1000	0.0103	0.0100	3.0	20.0
2,2-Dichloropropane	Ave	0.2805	0.2513		0.00896	0.0100	-10.4	20.0
Bromochloromethane	Ave	0.1670	0.1718		0.0103	0.0100	2.9	20.0
Tetrahydrofuran	Lin1		0.0514		0.0177	0.0200	-11.6	20.0
Chloroform	Ave	0.5644	0.5417	0.2000	0.00960	0.0100	-4.0	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3613	0.1000	0.00950	0.0100	-5.0	20.0
Cyclohexane	Ave	0.3776	0.3657	0.1000	0.00969	0.0100	-3.1	20.0
1,1-Dichloropropene	Ave	0.4114	0.4139		0.0101	0.0100	0.6	20.0
Carbon tetrachloride	Ave	0.3058	0.3412	0.1000	0.0112	0.0100	11.5	20.0
Isobutyl alcohol	Ave	0.0076	0.0065		0.212	0.250	-15.1	20.0
1,2-Dichloroethane	Ave	0.4093	0.3691	0.1000	0.00902	0.0100	-9.8	20.0
Benzene	Ave	1.368	1.442	0.5000	0.0105	0.0100	5.5	20.0
n-Heptane	Ave	0.0685	0.0663		0.00969	0.0100	-3.1	20.0
Trichloroethene	Ave	0.3612	0.3598	0.2000	0.00996	0.0100	-0.4	20.0
Methylcyclohexane	Ave	0.3868	0.3794	0.1000	0.00981	0.0100	-1.9	20.0

Preliminary Data

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Lab Sample ID: CCVIS 240-147557/2 Calibration Date: 09/18/2014 10:36

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ0920.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-Dichloropropane	Ave	0.3245	0.3362	0.1000	0.0104	0.0100	3.6	20.0
1,4-Dioxane	Ave	0.0020	0.0016		0.158	0.200	-21.0*	20.0
Dibromomethane	Ave	0.1645	0.1645		0.0100	0.0100	0.0	20.0
Bromodichloromethane	Ave	0.3949	0.4004	0.1000	0.0101	0.0100	1.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1598	0.0685		0.00857	0.0200	-57.1*	20.0
cis-1,3-Dichloropropene	Ave	0.4684	0.4633	0.1500	0.00989	0.0100	-1.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1720	0.1581	0.0500	0.0184	0.0200	-8.1	20.0
Toluene	Ave	2.218	2.238	0.4000	0.0101	0.0100	0.9	20.0
trans-1,3-Dichloropropene	Ave	0.5899	0.5522	0.1000	0.00936	0.0100	-6.4	20.0
Ethyl methacrylate	Ave	0.4305	0.4178		0.00971	0.0100	-2.9	20.0
1,1,2-Trichloroethane	Ave	0.3913	0.3802	0.1000	0.00972	0.0100	-2.8	20.0
1,3-Dichloropropane	Ave	0.7078	0.6769		0.00956	0.0100	-4.4	20.0
Tetrachloroethene	Ave	0.4012	0.4076	0.2000	0.0102	0.0100	1.6	20.0
2-Hexanone	Ave	0.1703	0.1500	0.0500	0.0176	0.0200	-11.9	20.0
Chlorodibromomethane	Ave	0.3920	0.3918		0.0100	0.0100	-0.0	20.0
1,2-Dibromoethane	Ave	0.3410	0.3261		0.00956	0.0100	-4.4	20.0
Chlorobenzene	Ave	1.188	1.165	0.3000	0.00980	0.0100	-2.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3942	0.3914		0.00993	0.0100	-0.7	20.0
Ethylbenzene	Ave	0.6055	0.5949		0.00983	0.0100	-1.7	20.0
m-Xylene & p-Xylene	Ave	0.7041	0.7142		0.0101	0.0100	1.4	20.0
o-Xylene	Ave	0.6385	0.6269		0.00982	0.0100	-1.8	20.0
Styrene	Ave	0.9678	0.9821	0.3000	0.0101	0.0100	1.5	20.0
Bromoform	Ave	0.1779	0.1758	0.1000	0.00988	0.0100	-1.2	20.0
Isopropylbenzene	Ave	1.411	1.357	0.1000	0.00962	0.0100	-3.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7363	0.6593	0.3000	0.00895	0.0100	-10.5	20.0
Bromobenzene	Ave	0.9529	0.9188		0.00964	0.0100	-3.6	20.0
1,2,3-Trichloropropane	Ave	0.2433	0.2124		0.00873	0.0100	-12.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1923	0.1418		0.00738	0.0100	-26.2*	20.0
N-Propylbenzene	Ave	0.9060	0.8447		0.00932	0.0100	-6.8	20.0
2-Chlorotoluene	Ave	0.8204	0.7795		0.00950	0.0100	-5.0	20.0
1,3,5-Trimethylbenzene	Ave	2.482	2.403		0.00968	0.0100	-3.2	20.0
4-Chlorotoluene	Ave	0.8645	0.8067		0.00933	0.0100	-6.7	20.0
tert-Butylbenzene	Ave	2.257	2.026		0.00898	0.0100	-10.2	20.0
1,2,4-Trimethylbenzene	Ave	2.650	2.521		0.00951	0.0100	-4.9	20.0
sec-Butylbenzene	Ave	2.884	2.688		0.00932	0.0100	-6.8	20.0
1,3-Dichlorobenzene	Ave	1.730	1.592	0.6000	0.00920	0.0100	-8.0	20.0
4-Isopropyltoluene	Ave	2.568	2.383		0.00928	0.0100	-7.2	20.0
1,4-Dichlorobenzene	Ave	1.775	1.669	0.5000	0.00940	0.0100	-6.0	20.0
n-Butylbenzene	Ave	2.153	1.891		0.00878	0.0100	-12.2	20.0
1,2-Dichlorobenzene	Ave	1.702	1.582	0.4000	0.00929	0.0100	-7.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1329	0.1233	0.0500	0.00928	0.0100	-7.2	20.0

Preliminary Data

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Lab Sample ID: CCVIS 240-147557/2 Calibration Date: 09/18/2014 10:36

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ0920.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
1,2,4-Trichlorobenzene	Ave	0.9474	0.8087	0.2000	0.00854	0.0100	-14.6	20.0
Hexachlorobutadiene	Ave	0.4467	0.4065		0.00910	0.0100	-9.0	20.0
Naphthalene	Ave	1.925	1.555		0.00808	0.0100	-19.2	20.0
1,2,3-Trichlorobenzene	Ave	0.8197	0.7038		0.00859	0.0100	-14.1	20.0
Dibromofluoromethane (Surr)	Ave	0.3003	0.2459		0.00683	0.00834	-18.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3553	0.2561		0.00601	0.00834	-27.9*	20.0
Toluene-d8 (Surr)	Ave	1.989	1.627		0.00682	0.00834	-18.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4166	0.3538		0.00708	0.00834	-15.1	20.0

Preliminary Data

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Lab Sample ID: CCV 240-147557/3 Calibration Date: 09/18/2014 11:45

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 12:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 14:04

Lab File ID: UXJ0923.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
Acetonitrile	Ave	0.0238	0.0239		0.100	0.100	0.4	20.0
Diisopropyl ether	Ave	0.2898	0.2819		0.00973	0.0100	-2.7	20.0
2-Chloro-1,3-butadiene	Ave	0.4688	0.4541		0.00969	0.0100	-3.1	20.0
Ethyl tert-butyl ether	Ave	0.8548	0.7758		0.00908	0.0100	-9.2	20.0
Ethyl acetate	Ave	0.0846	0.0745		0.0176	0.0200	-12.0	20.0
Propionitrile	Ave	0.0299	0.0286		0.0956	0.100	-4.4	20.0
Methacrylonitrile	Ave	0.1473	0.1423		0.0966	0.100	-3.4	20.0
Tert-amyl methyl ether	Ave	0.7723	0.6936		0.00898	0.0100	-10.2	20.0
n-Butanol	Ave	0.0060	0.0044		0.184	0.250	-26.4*	20.0
Ethyl acrylate	Ave	0.2745	0.2589		0.00943	0.0100	-5.7	20.0
Methyl methacrylate	Ave	0.2004	0.1880		0.0188	0.0200	-6.2	20.0
2-Nitropropane	Ave	0.0533	0.0479		0.0180	0.0200	-10.2	20.0
1-Chlorohexane	Ave	0.4648	0.4177		0.00899	0.0100	-10.1	20.0
Cyclohexanone	Ave	0.0211	0.0198		0.0939	0.100	-6.1	20.0
1,2,3-Trimethylbenzene	Ave	2.694	2.457		0.00912	0.0100	-8.8	20.0
1,3,5-Trichlorobenzene	Ave	1.164	1.066		0.00916	0.0100	-8.4	20.0
2-Methylnaphthalene	Ave	0.4573	0.4500		0.0197	0.0200	-1.6	20.0

Preliminary Data

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42033-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-147557/7

Matrix: Water | Lab File ID: UXJ0926.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/18/2014 12:52

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.: 147557 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

Preliminary Data

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42033-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-147557/7

Matrix: Water | Lab File ID: UXJ0926.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/18/2014 12:52

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.: 147557 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

Preliminary Data

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-147557/7

Matrix: Water Lab File ID: UXJ0926.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/18/2014 12:52

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.: 147557 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	83		74-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-121
460-00-4	4-Bromofluorobenzene (Surr)	82		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		63-129

Preliminary Data

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42033-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-147557/4

Matrix: Water | Lab File ID: UXJ0921.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/18/2014 10:59

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.: 147557 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	9.67		1.0	0.28
71-55-6	1,1,1-Trichloroethane	10.0		1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	9.77		1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	10.9		1.0	0.37
75-34-3	1,1-Dichloroethane	10.2		1.0	0.26
75-35-4	1,1-Dichloroethene	9.99		1.0	0.45
563-58-6	1,1-Dichloropropene	10.9		1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	9.13		1.0	0.37
96-18-4	1,2,3-Trichloropropane	9.70		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	8.79		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	9.44		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	10.8		2.0	0.82
95-50-1	1,2-Dichlorobenzene	9.59		1.0	0.17
107-06-2	1,2-Dichloroethane	8.99		1.0	0.20
78-87-5	1,2-Dichloropropane	9.91		1.0	0.22
541-73-1	1,3-Dichlorobenzene	9.44		1.0	0.17
142-28-9	1,3-Dichloropropane	9.45		1.0	0.18
106-46-7	1,4-Dichlorobenzene	9.57		1.0	0.16
594-20-7	2,2-Dichloropropane	9.38		1.0	0.26
78-93-3	2-Butanone (MEK)	17.2		10	4.1
110-75-8	2-Chloroethyl vinyl ether	4.67	J	10	1.2
95-49-8	2-Chlorotoluene	9.76		1.0	0.20
591-78-6	2-Hexanone	18.3		10	3.9
106-43-4	4-Chlorotoluene	9.63		1.0	0.22
99-87-6	4-Isopropyltoluene	9.22		1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	19.5		10	3.6
67-64-1	Acetone	16.7		10	3.4
71-43-2	Benzene	10.3		1.0	0.24
108-86-1	Bromobenzene	10.1		1.0	0.12
75-25-2	Bromoform	9.68		1.0	0.56
74-83-9	Bromomethane	7.93		1.0	0.63
75-15-0	Carbon disulfide	10.6		1.0	0.28
56-23-5	Carbon tetrachloride	11.8		1.0	0.17
108-90-7	Chlorobenzene	9.40		1.0	0.19
124-48-1	Chlorodibromomethane	9.53		1.0	0.43
75-00-3	Chloroethane	8.48		1.0	0.33

Preliminary Data

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42033-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-147557/4

Matrix: Water | Lab File ID: UXJ0921.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/18/2014 10:59

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.: 147557 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	9.52		1.0	0.21
74-87-3	Chloromethane	9.29		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	10.0		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	10.0		1.0	0.46
74-95-3	Dibromomethane	9.93		1.0	0.17
74-97-5	Bromochloromethane	9.93		1.0	0.25
75-71-8	Dichlorodifluoromethane	8.39		1.0	0.50
75-27-4	Bromodichloromethane	9.63		1.0	0.15
75-65-0	tert-Butyl alcohol	98.5		50	8.7
100-41-4	Ethylbenzene	9.49		1.0	0.23
87-68-3	Hexachlorobutadiene	8.95		1.0	0.35
98-82-8	Isopropylbenzene	9.26		1.0	0.35
1634-04-4	Methyl tert-butyl ether	9.87		1.0	0.16
75-09-2	Methylene Chloride	10.3		1.0	0.28
179601-23-1	m-Xylene & p-Xylene	9.69		2.0	0.22
91-20-3	Naphthalene	8.94		1.0	0.45
104-51-8	n-Butylbenzene	8.80		1.0	0.22
103-65-1	N-Propylbenzene	9.58		1.0	0.40
95-47-6	o-Xylene	9.28		1.0	0.21
135-98-8	sec-Butylbenzene	9.34		1.0	0.48
100-42-5	Styrene	9.83		1.0	0.45
127-18-4	Tetrachloroethene	9.97		1.0	0.20
108-88-3	Toluene	9.74		1.0	0.22
156-60-5	trans-1,2-Dichloroethene	10.3		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	10.1		1.0	0.56
79-01-6	Trichloroethene	9.83		1.0	0.15
75-69-4	Trichlorofluoromethane	9.30		1.0	0.49
108-05-4	Vinyl acetate	6.70		2.0	0.41
75-01-4	Vinyl chloride	9.05		1.0	0.29
1330-20-7	Xylenes, Total	19.0		2.0	0.43
98-06-6	tert-Butylbenzene	9.15		1.0	0.41
106-93-4	1,2-Dibromoethane	9.57		1.0	0.19

Preliminary Data

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-147557/4

Matrix: Water Lab File ID: UXJ0921.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/18/2014 10:59

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.: 147557 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	85		74-120
1868-53-7	Dibromofluoromethane (Surr)	84		75-121
460-00-4	4-Bromofluorobenzene (Surr)	87		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	76		63-129

Preliminary Data

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Instrument ID: A3UX11 Start Date: 09/04/2014 09:27

Analysis Batch Number: 145573 End Date: 09/04/2014 21:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-145573/1		09/04/2014 09:27	1	BFB904.D	DB-624 0.18(mm)
STD8260 240-145573/2 IC		09/04/2014 09:56	1	UXJ0622.D	DB-624 0.18(mm)
STD8260 240-145573/3 IC		09/04/2014 10:19	1	UXJ0623.D	DB-624 0.18(mm)
STD8260 240-145573/4 ICIS		09/04/2014 10:41	1	UXJ0624.D	DB-624 0.18(mm)
STD8260 240-145573/5 IC		09/04/2014 11:03	1	UXJ0625.D	DB-624 0.18(mm)
STD8260 240-145573/6 IC		09/04/2014 11:25	1	UXJ0626.D	DB-624 0.18(mm)
STD8260 240-145573/7 IC		09/04/2014 11:48	1	UXJ0627.D	DB-624 0.18(mm)
STD6 240-145573/8 IC		09/04/2014 12:11	1	UXJ0628.D	DB-624 0.18(mm)
STD5 240-145573/9 IC		09/04/2014 12:33	1	UXJ0629.D	DB-624 0.18(mm)
STD4 240-145573/10 IC		09/04/2014 12:56	1	UXJ0630.D	DB-624 0.18(mm)
STD3 240-145573/11 IC		09/04/2014 13:18	1	UXJ0631.D	DB-624 0.18(mm)
STD2 240-145573/12 IC		09/04/2014 13:41	1	UXJ0632.D	DB-624 0.18(mm)
STD1 240-145573/13 IC		09/04/2014 14:04	1	UXJ0633.D	DB-624 0.18(mm)
ICV 240-145573/14		09/04/2014 14:30	1	UXJ0634.D	DB-624 0.18(mm)
ICV 240-145573/15		09/04/2014 14:53	1	UXJ0635.D	DB-624 0.18(mm)
ZZZZZ		09/04/2014 16:01	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 16:24	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 17:05	16.67		DB-624 0.18(mm)
ZZZZZ		09/04/2014 17:28	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 17:50	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 18:13	16.67		DB-624 0.18(mm)
ZZZZZ		09/04/2014 18:36	16.67		DB-624 0.18(mm)
ZZZZZ		09/04/2014 19:22	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 19:44	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 20:07	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 21:15	1		DB-624 0.18(mm)

Preliminary Data

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42033-1

SDG No.:

Instrument ID: A3UX11 Start Date: 09/18/2014 10:13

Analysis Batch Number: 147557 End Date: 09/18/2014 14:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-147557/1		09/18/2014 10:13	1	BFB918C.D	DB-624 0.18(mm)
CCVIS 240-147557/2		09/18/2014 10:36	1	UXJ0920.D	DB-624 0.18(mm)
LCS 240-147557/4		09/18/2014 10:59	1	UXJ0921.D	DB-624 0.18(mm)
ZZZZZ		09/18/2014 11:22	1		DB-624 0.18(mm)
CCV 240-147557/3		09/18/2014 11:45	1	UXJ0923.D	DB-624 0.18(mm)
ZZZZZ		09/18/2014 12:07	1		DB-624 0.18(mm)
MB 240-147557/7		09/18/2014 12:52	1	UXJ0926.D	DB-624 0.18(mm)
240-42033-2	TB-091714	09/18/2014 13:15	1	UXJ0927.D	DB-624 0.18(mm)
240-42033-1	WSP-4-091714	09/18/2014 14:00	1	UXJ0929.D	DB-624 0.18(mm)

Preliminary Data

Shipping and Receiving Documents

Preliminary Data

TestAmerica Laboratories, Inc.

Preliminary Data

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS

240-42033 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

Chain of Custody Record

2.6

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: North Canton, OH

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager: Chris Pike	Site Contact: Stu Cameron	Lab Contact: John McFadden	COC No:
Address: 20251 Century Blvd Ste 200	Telephone: (412) 302-1624	Telephone: (703) 342-8389	Telephone: (330) 966-0355	1 of 1 COCs
City/State/Zip: Germantown MD, 20874	Email: chris.pike@tetratech.com	Analysis Turnaround Time (in BUS days)		For lab use only
Phone: (301) 528-3002		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☒ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: MRC Block E MPE System	Method of Shipment/Carrier: Fed Ex			
Project Number: 112IC04770-26	Shipping/Tracking No:			Job/SDG No:
PO #				

Analyses

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	VOCs-TCL										Sample Specific Notes / Special Instructions:
WSP-4-091714	9/17/14	1235		X						3					N	G	X										
TB-091714	—	—		X						2							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: 1 day TAT

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Tetra Tech	9-17-14 / 1330	Dakota Turner	TA-Canton	9/18/14 7:50
			Received in Laboratory by:		

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TAL-0018 (1008)

Preliminary Data

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 42033

Client Tetratech Site Name

Cooler unpacked by: Dakota Turner

Cooler Received on 9/18/14 Opened on 9/18/14

FedEx: (1st) Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +2 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C
IR GUN# 4	(CF -2 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C
IR GUN# 5	(CF 0 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C
IR GUN# 8	(CF 0 °C)	Observed Cooler Temp. 2.6 °C	Corrected Cooler Temp. 2.6 °C

☐ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity ____ Yes (No)
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No (NA)
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC412469
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? (Yes) No

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ 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 the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

Pre-Liminary Data

9/19/2014 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-42186-1

Job Description: LM MRC Block E MPE System O&M

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
9/26/2014 2:59 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
09/26/2014

cc: Samantha Brenner
Ms. Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: LM MRC Block E MPE System O&M

Report Number: 240-42186-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 9/20/2014 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

Sample TB-091914 is listed on the Chain of Custody, however it was not received.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples WSP-1-091914 (240-42186-1), WSP-2-091914 (240-42186-2), WSP-3-091914 (240-42186-3), WSP-101-091914 (240-42186-4), WSP-201-091914 (240-42186-5), WSP-301-091914 (240-42186-6) and WSP-401-091914 (240-42186-7) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 09/24/2014.

Samples WSP-1-091914 (240-42186-1)[3333.33X], WSP-101-091914 (240-42186-4)[3333.33X], WSP-201-091914 (240-42186-5) [3333.33X], WSP-301-091914 (240-42186-6)[3333.33X] and WSP-401-091914 (240-42186-7)[3333.33X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The laboratory control sample (LCS) for batch 148401 recovered outside control limits for the following analyte(s): 2-Methyl-2-propanol, Trichlorofluoromethane. These analytes have been identified as poor performing analytes when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The continuing calibration verification (CCV) for analytical batch 148401 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detects for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICP)

Samples WSP-1-091914 (240-42186-1), WSP-2-091914 (240-42186-2) and WSP-4-091914 (240-42186-8) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 09/22/2014 and analyzed on 09/23/2014.

Manganese and Zinc were detected in method blank MB 240-147984/1-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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples WSP-1-091914 (240-42186-1), WSP-2-091914 (240-42186-2) and WSP-4-091914 (240-42186-8) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 09/22/2014 and analyzed on 09/23/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-42186-1	WSP-1-091914	Water	09/19/2014 1140	09/20/2014 0940
240-42186-2	WSP-2-091914	Water	09/19/2014 1145	09/20/2014 0940
240-42186-3	WSP-3-091914	Water	09/19/2014 1150	09/20/2014 0940
240-42186-4	WSP-101-091914	Water	09/19/2014 1200	09/20/2014 0940
240-42186-5	WSP-201-091914	Water	09/19/2014 1205	09/20/2014 0940
240-42186-6	WSP-301-091914	Water	09/19/2014 1210	09/20/2014 0940
240-42186-7	WSP-401-091914	Water	09/19/2014 1215	09/20/2014 0940
240-42186-8	WSP-4-091914	Water	09/19/2014 1155	09/20/2014 0940

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-42186-1	**WSP-1-091914**					
Trichloroethene		48000		3300	ug/L	8260C
Mercury		0.18	J	0.20	ug/L	7470A
Total Recoverable						
Copper		32		25	ug/L	6010C
Nickel		110		40	ug/L	6010C
Lead		3.9	J	10	ug/L	6010C
Zinc		200	B	50	ug/L	6010C
240-42186-2	**WSP-2-091914**					
Acetone		4.5	J	10	ug/L	8260C
Total Recoverable						
Copper		14	J	25	ug/L	6010C
Nickel		74		40	ug/L	6010C
Lead		4.6	J	10	ug/L	6010C
Zinc		2400	B	50	ug/L	6010C
240-42186-4	**WSP-101-091914**					
Trichloroethene		29000		3300	ug/L	8260C
240-42186-5	**WSP-201-091914**					
Methylene Chloride		1100	J	3300	ug/L	8260C
Trichloroethene		44000		3300	ug/L	8260C
240-42186-6	**WSP-301-091914**					
Trichloroethene		36000		3300	ug/L	8260C
240-42186-7	**WSP-401-091914**					
Trichloroethene		83000		3300	ug/L	8260C
240-42186-8	**WSP-4-091914**					
Total Recoverable						
Copper		9.5	J	25	ug/L	6010C
Nickel		1.0	J	40	ug/L	6010C
Zinc		120	B	50	ug/L	6010C

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL CAN	SW846 8260C	
Purge and Trap	TAL CAN		SW846 5030C
Metals (ICP)	TAL CAN	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL CAN		SW846 3005A
Mercury (CVAA)	TAL CAN	SW846 7470A	
Preparation, Mercury	TAL CAN		SW846 7470A

Lab References:

TAL CAN = TestAmerica Canton

Method References:

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Method	Analyst	Analyst ID
SW846 8260C	Evans, Laura	LEE
SW846 6010C	Sutherland, Aaron	ADS
SW846 7470A	Martin, Aaron	AMM2

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-1-091914**

Lab Sample ID: 240-42186-1 Date Sampled: 09/19/2014 1140
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4522.D
Dilution:	3333.33			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1307			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	930	U	930	3300
1,1,1-Trichloroethane	730	U	730	3300
1,1,2,2-Tetrachloroethane	730	U	730	3300
1,1,2-Trichlorotrifluoroethane	1200	U	1200	3300
1,1-Dichloroethane	870	U	870	3300
1,1-Dichloroethene	1500	U	1500	3300
1,1-Dichloropropene	730	U	730	3300
1,2,3-Trichlorobenzene	1200	U	1200	3300
1,2,3-Trichloropropane	1000	U	1000	3300
1,2,3-Trimethylbenzene	1600	U	1600	17000
1,2,4-Trichlorobenzene	1100	U	1100	3300
1,2,4-Trimethylbenzene	1400	U	1400	3300
1,2-Dibromo-3-Chloropropane	2700	U	2700	6700
1,2-Dichlorobenzene	570	U	570	3300
1,2-Dichloroethane	670	U	670	3300
1,2-Dichloropropane	730	U	730	3300
1,3-Dichlorobenzene	570	U	570	3300
1,3-Dichloropropane	600	U	600	3300
1,4-Dichlorobenzene	530	U	530	3300
2,2-Dichloropropane	870	U	870	3300
2-Butanone (MEK)	14000	U	14000	33000
2-Chloroethyl vinyl ether	3900	U	3900	33000
2-Chlorotoluene	670	U	670	3300
2-Hexanone	13000	U	13000	33000
4-Chlorotoluene	730	U	730	3300
4-Isopropyltoluene	1400	U	1400	3300
4-Methyl-2-pentanone (MIBK)	12000	U	12000	33000
Acetone	11000	U	11000	33000
Benzene	800	U	800	3300
Bromobenzene	400	U	400	3300
Bromoform	1900	U	1900	3300
Bromomethane	2100	U	2100	3300
Carbon disulfide	930	U	930	3300
Carbon tetrachloride	570	U	570	3300
Chlorobenzene	630	U	630	3300
Chlorodibromomethane	1400	U	1400	3300
Chloroethane	1100	U	1100	3300
Chloroform	700	U	700	3300
Chloromethane	1500	U	1500	3300
cis-1,2-Dichloroethene	670	U	670	3300
cis-1,3-Dichloropropene	1500	U	1500	3300
Dibromomethane	570	U	570	3300
Bromochloromethane	830	U	830	3300
Dichlorodifluoromethane	1700	U	1700	3300
Bromodichloromethane	500	U	500	3300
tert-Butyl alcohol	29000	U *	29000	170000

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-1-091914**

Lab Sample ID: 240-42186-1 Date Sampled: 09/19/2014 1140
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4522.D
Dilution:	3333.33			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1307			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1307				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	770	U	770	3300
Hexachlorobutadiene	1200	U	1200	3300
Diisopropyl ether	630	U	630	33000
Isopropylbenzene	1200	U	1200	3300
Methyl tert-butyl ether	530	U	530	3300
Methylene Chloride	930	U	930	3300
m-Xylene & p-Xylene	730	U	730	6700
Naphthalene	1500	U	1500	3300
n-Butylbenzene	730	U	730	3300
N-Propylbenzene	1300	U	1300	3300
o-Xylene	700	U	700	3300
sec-Butylbenzene	1600	U	1600	3300
Styrene	1500	U	1500	3300
Tert-amyl methyl ether	530	U	530	17000
Ethyl tert-butyl ether	670	U	670	17000
Tetrachloroethene	670	U	670	3300
Toluene	730	U	730	3300
trans-1,2-Dichloroethene	870	U	870	3300
trans-1,3-Dichloropropene	1900	U	1900	3300
Trichloroethene	48000		500	3300
Trichlorofluoromethane	1600	U *	1600	3300
Vinyl acetate	1400	U	1400	6700
Vinyl chloride	970	U	970	3300
Xylenes, Total	1400	U	1400	6700
tert-Butylbenzene	1400	U	1400	3300
1,2-Dibromoethane	630	U	630	3300

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	87		74 - 120
Dibromofluoromethane (Surr)	86		75 - 121
4-Bromofluorobenzene (Surr)	73		66 - 120
1,2-Dichloroethane-d4 (Surr)	82		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-2-091914**

Lab Sample ID: 240-42186-2 Date Sampled: 09/19/2014 1145
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4544.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 2119			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 2119				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	4.5	J	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U *	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-2-091914**

Lab Sample ID: 240-42186-2 Date Sampled: 09/19/2014 1145
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4544.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 2119			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 2119				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U *	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	89		74 - 120
Dibromofluoromethane (Surr)	83		75 - 121
4-Bromofluorobenzene (Surr)	76		66 - 120
1,2-Dichloroethane-d4 (Surr)	78		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-3-091914**

Lab Sample ID: 240-42186-3 Date Sampled: 09/19/2014 1150
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4529.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1545			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1545				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U *	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-3-091914**

Lab Sample ID: 240-42186-3 Date Sampled: 09/19/2014 1150
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4529.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1545			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1545				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U *	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	84		74 - 120
Dibromofluoromethane (Surr)	84		75 - 121
4-Bromofluorobenzene (Surr)	71		66 - 120
1,2-Dichloroethane-d4 (Surr)	81		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-101-091914**

Lab Sample ID: 240-42186-4 Date Sampled: 09/19/2014 1200
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4526.D
Dilution:	3333.33			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1438			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1438				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	930	U	930	3300
1,1,1-Trichloroethane	730	U	730	3300
1,1,2,2-Tetrachloroethane	730	U	730	3300
1,1,2-Trichlorotrifluoroethane	1200	U	1200	3300
1,1-Dichloroethane	870	U	870	3300
1,1-Dichloroethene	1500	U	1500	3300
1,1-Dichloropropene	730	U	730	3300
1,2,3-Trichlorobenzene	1200	U	1200	3300
1,2,3-Trichloropropane	1000	U	1000	3300
1,2,3-Trimethylbenzene	1600	U	1600	17000
1,2,4-Trichlorobenzene	1100	U	1100	3300
1,2,4-Trimethylbenzene	1400	U	1400	3300
1,2-Dibromo-3-Chloropropane	2700	U	2700	6700
1,2-Dichlorobenzene	570	U	570	3300
1,2-Dichloroethane	670	U	670	3300
1,2-Dichloropropane	730	U	730	3300
1,3-Dichlorobenzene	570	U	570	3300
1,3-Dichloropropane	600	U	600	3300
1,4-Dichlorobenzene	530	U	530	3300
2,2-Dichloropropane	870	U	870	3300
2-Butanone (MEK)	14000	U	14000	33000
2-Chloroethyl vinyl ether	3900	U	3900	33000
2-Chlorotoluene	670	U	670	3300
2-Hexanone	13000	U	13000	33000
4-Chlorotoluene	730	U	730	3300
4-Isopropyltoluene	1400	U	1400	3300
4-Methyl-2-pentanone (MIBK)	12000	U	12000	33000
Acetone	11000	U	11000	33000
Benzene	800	U	800	3300
Bromobenzene	400	U	400	3300
Bromoform	1900	U	1900	3300
Bromomethane	2100	U	2100	3300
Carbon disulfide	930	U	930	3300
Carbon tetrachloride	570	U	570	3300
Chlorobenzene	630	U	630	3300
Chlorodibromomethane	1400	U	1400	3300
Chloroethane	1100	U	1100	3300
Chloroform	700	U	700	3300
Chloromethane	1500	U	1500	3300
cis-1,2-Dichloroethene	670	U	670	3300
cis-1,3-Dichloropropene	1500	U	1500	3300
Dibromomethane	570	U	570	3300
Bromochloromethane	830	U	830	3300
Dichlorodifluoromethane	1700	U	1700	3300
Bromodichloromethane	500	U	500	3300
tert-Butyl alcohol	29000	U *	29000	170000

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-101-091914**

Lab Sample ID: 240-42186-4 Date Sampled: 09/19/2014 1200
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4526.D
Dilution:	3333.33			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1438			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1438				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	770	U	770	3300
Hexachlorobutadiene	1200	U	1200	3300
Diisopropyl ether	630	U	630	33000
Isopropylbenzene	1200	U	1200	3300
Methyl tert-butyl ether	530	U	530	3300
Methylene Chloride	930	U	930	3300
m-Xylene & p-Xylene	730	U	730	6700
Naphthalene	1500	U	1500	3300
n-Butylbenzene	730	U	730	3300
N-Propylbenzene	1300	U	1300	3300
o-Xylene	700	U	700	3300
sec-Butylbenzene	1600	U	1600	3300
Styrene	1500	U	1500	3300
Tert-amyl methyl ether	530	U	530	17000
Ethyl tert-butyl ether	670	U	670	17000
Tetrachloroethene	670	U	670	3300
Toluene	730	U	730	3300
trans-1,2-Dichloroethene	870	U	870	3300
trans-1,3-Dichloropropene	1900	U	1900	3300
Trichloroethene	29000		500	3300
Trichlorofluoromethane	1600	U *	1600	3300
Vinyl acetate	1400	U	1400	6700
Vinyl chloride	970	U	970	3300
Xylenes, Total	1400	U	1400	6700
tert-Butylbenzene	1400	U	1400	3300
1,2-Dibromoethane	630	U	630	3300

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	86		74 - 120
Dibromofluoromethane (Surr)	86		75 - 121
4-Bromofluorobenzene (Surr)	70		66 - 120
1,2-Dichloroethane-d4 (Surr)	83		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-201-091914**

Lab Sample ID: 240-42186-5 Date Sampled: 09/19/2014 1205
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4527.D
Dilution:	3333.33			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1501			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	930	U	930	3300
1,1,1-Trichloroethane	730	U	730	3300
1,1,2,2-Tetrachloroethane	730	U	730	3300
1,1,2-Trichlorotrifluoroethane	1200	U	1200	3300
1,1-Dichloroethane	870	U	870	3300
1,1-Dichloroethene	1500	U	1500	3300
1,1-Dichloropropene	730	U	730	3300
1,2,3-Trichlorobenzene	1200	U	1200	3300
1,2,3-Trichloropropane	1000	U	1000	3300
1,2,3-Trimethylbenzene	1600	U	1600	17000
1,2,4-Trichlorobenzene	1100	U	1100	3300
1,2,4-Trimethylbenzene	1400	U	1400	3300
1,2-Dibromo-3-Chloropropane	2700	U	2700	6700
1,2-Dichlorobenzene	570	U	570	3300
1,2-Dichloroethane	670	U	670	3300
1,2-Dichloropropane	730	U	730	3300
1,3-Dichlorobenzene	570	U	570	3300
1,3-Dichloropropane	600	U	600	3300
1,4-Dichlorobenzene	530	U	530	3300
2,2-Dichloropropane	870	U	870	3300
2-Butanone (MEK)	14000	U	14000	33000
2-Chloroethyl vinyl ether	3900	U	3900	33000
2-Chlorotoluene	670	U	670	3300
2-Hexanone	13000	U	13000	33000
4-Chlorotoluene	730	U	730	3300
4-Isopropyltoluene	1400	U	1400	3300
4-Methyl-2-pentanone (MIBK)	12000	U	12000	33000
Acetone	11000	U	11000	33000
Benzene	800	U	800	3300
Bromobenzene	400	U	400	3300
Bromoform	1900	U	1900	3300
Bromomethane	2100	U	2100	3300
Carbon disulfide	930	U	930	3300
Carbon tetrachloride	570	U	570	3300
Chlorobenzene	630	U	630	3300
Chlorodibromomethane	1400	U	1400	3300
Chloroethane	1100	U	1100	3300
Chloroform	700	U	700	3300
Chloromethane	1500	U	1500	3300
cis-1,2-Dichloroethene	670	U	670	3300
cis-1,3-Dichloropropene	1500	U	1500	3300
Dibromomethane	570	U	570	3300
Bromochloromethane	830	U	830	3300
Dichlorodifluoromethane	1700	U	1700	3300
Bromodichloromethane	500	U	500	3300
tert-Butyl alcohol	29000	U *	29000	170000

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-201-091914**

Lab Sample ID: 240-42186-5 Date Sampled: 09/19/2014 1205
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4527.D
Dilution:	3333.33			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1501			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1501				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	770	U	770	3300
Hexachlorobutadiene	1200	U	1200	3300
Diisopropyl ether	630	U	630	33000
Isopropylbenzene	1200	U	1200	3300
Methyl tert-butyl ether	530	U	530	3300
Methylene Chloride	1100	J	930	3300
m-Xylene & p-Xylene	730	U	730	6700
Naphthalene	1500	U	1500	3300
n-Butylbenzene	730	U	730	3300
N-Propylbenzene	1300	U	1300	3300
o-Xylene	700	U	700	3300
sec-Butylbenzene	1600	U	1600	3300
Styrene	1500	U	1500	3300
Tert-amyl methyl ether	530	U	530	17000
Ethyl tert-butyl ether	670	U	670	17000
Tetrachloroethene	670	U	670	3300
Toluene	730	U	730	3300
trans-1,2-Dichloroethene	870	U	870	3300
trans-1,3-Dichloropropene	1900	U	1900	3300
Trichloroethene	44000		500	3300
Trichlorofluoromethane	1600	U *	1600	3300
Vinyl acetate	1400	U	1400	6700
Vinyl chloride	970	U	970	3300
Xylenes, Total	1400	U	1400	6700
tert-Butylbenzene	1400	U	1400	3300
1,2-Dibromoethane	630	U	630	3300

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	85		74 - 120
Dibromofluoromethane (Surr)	84		75 - 121
4-Bromofluorobenzene (Surr)	71		66 - 120
1,2-Dichloroethane-d4 (Surr)	82		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-301-091914**

Lab Sample ID: 240-42186-6 Date Sampled: 09/19/2014 1210
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4528.D
Dilution:	3333.33			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1523			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1523				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	930	U	930	3300
1,1,1-Trichloroethane	730	U	730	3300
1,1,2,2-Tetrachloroethane	730	U	730	3300
1,1,2-Trichlorotrifluoroethane	1200	U	1200	3300
1,1-Dichloroethane	870	U	870	3300
1,1-Dichloroethene	1500	U	1500	3300
1,1-Dichloropropene	730	U	730	3300
1,2,3-Trichlorobenzene	1200	U	1200	3300
1,2,3-Trichloropropane	1000	U	1000	3300
1,2,3-Trimethylbenzene	1600	U	1600	17000
1,2,4-Trichlorobenzene	1100	U	1100	3300
1,2,4-Trimethylbenzene	1400	U	1400	3300
1,2-Dibromo-3-Chloropropane	2700	U	2700	6700
1,2-Dichlorobenzene	570	U	570	3300
1,2-Dichloroethane	670	U	670	3300
1,2-Dichloropropane	730	U	730	3300
1,3-Dichlorobenzene	570	U	570	3300
1,3-Dichloropropane	600	U	600	3300
1,4-Dichlorobenzene	530	U	530	3300
2,2-Dichloropropane	870	U	870	3300
2-Butanone (MEK)	14000	U	14000	33000
2-Chloroethyl vinyl ether	3900	U	3900	33000
2-Chlorotoluene	670	U	670	3300
2-Hexanone	13000	U	13000	33000
4-Chlorotoluene	730	U	730	3300
4-Isopropyltoluene	1400	U	1400	3300
4-Methyl-2-pentanone (MIBK)	12000	U	12000	33000
Acetone	11000	U	11000	33000
Benzene	800	U	800	3300
Bromobenzene	400	U	400	3300
Bromoform	1900	U	1900	3300
Bromomethane	2100	U	2100	3300
Carbon disulfide	930	U	930	3300
Carbon tetrachloride	570	U	570	3300
Chlorobenzene	630	U	630	3300
Chlorodibromomethane	1400	U	1400	3300
Chloroethane	1100	U	1100	3300
Chloroform	700	U	700	3300
Chloromethane	1500	U	1500	3300
cis-1,2-Dichloroethene	670	U	670	3300
cis-1,3-Dichloropropene	1500	U	1500	3300
Dibromomethane	570	U	570	3300
Bromochloromethane	830	U	830	3300
Dichlorodifluoromethane	1700	U	1700	3300
Bromodichloromethane	500	U	500	3300
tert-Butyl alcohol	29000	U *	29000	170000

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-301-091914**

Lab Sample ID: 240-42186-6 Date Sampled: 09/19/2014 1210
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4528.D
Dilution:	3333.33			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1523			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1523				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	770	U	770	3300
Hexachlorobutadiene	1200	U	1200	3300
Diisopropyl ether	630	U	630	33000
Isopropylbenzene	1200	U	1200	3300
Methyl tert-butyl ether	530	U	530	3300
Methylene Chloride	930	U	930	3300
m-Xylene & p-Xylene	730	U	730	6700
Naphthalene	1500	U	1500	3300
n-Butylbenzene	730	U	730	3300
N-Propylbenzene	1300	U	1300	3300
o-Xylene	700	U	700	3300
sec-Butylbenzene	1600	U	1600	3300
Styrene	1500	U	1500	3300
Tert-amyl methyl ether	530	U	530	17000
Ethyl tert-butyl ether	670	U	670	17000
Tetrachloroethene	670	U	670	3300
Toluene	730	U	730	3300
trans-1,2-Dichloroethene	870	U	870	3300
trans-1,3-Dichloropropene	1900	U	1900	3300
Trichloroethene	36000		500	3300
Trichlorofluoromethane	1600	U *	1600	3300
Vinyl acetate	1400	U	1400	6700
Vinyl chloride	970	U	970	3300
Xylenes, Total	1400	U	1400	6700
tert-Butylbenzene	1400	U	1400	3300
1,2-Dibromoethane	630	U	630	3300

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	88		74 - 120
Dibromofluoromethane (Surr)	85		75 - 121
4-Bromofluorobenzene (Surr)	72		66 - 120
1,2-Dichloroethane-d4 (Surr)	82		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-401-091914**

Lab Sample ID: 240-42186-7 Date Sampled: 09/19/2014 1215
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4543.D
Dilution:	3333.33			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 2057			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 2057				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	930	U	930	3300
1,1,1-Trichloroethane	730	U	730	3300
1,1,2,2-Tetrachloroethane	730	U	730	3300
1,1,2-Trichlorotrifluoroethane	1200	U	1200	3300
1,1-Dichloroethane	870	U	870	3300
1,1-Dichloroethene	1500	U	1500	3300
1,1-Dichloropropene	730	U	730	3300
1,2,3-Trichlorobenzene	1200	U	1200	3300
1,2,3-Trichloropropane	1000	U	1000	3300
1,2,3-Trimethylbenzene	1600	U	1600	17000
1,2,4-Trichlorobenzene	1100	U	1100	3300
1,2,4-Trimethylbenzene	1400	U	1400	3300
1,2-Dibromo-3-Chloropropane	2700	U	2700	6700
1,2-Dichlorobenzene	570	U	570	3300
1,2-Dichloroethane	670	U	670	3300
1,2-Dichloropropane	730	U	730	3300
1,3-Dichlorobenzene	570	U	570	3300
1,3-Dichloropropane	600	U	600	3300
1,4-Dichlorobenzene	530	U	530	3300
2,2-Dichloropropane	870	U	870	3300
2-Butanone (MEK)	14000	U	14000	33000
2-Chloroethyl vinyl ether	3900	U	3900	33000
2-Chlorotoluene	670	U	670	3300
2-Hexanone	13000	U	13000	33000
4-Chlorotoluene	730	U	730	3300
4-Isopropyltoluene	1400	U	1400	3300
4-Methyl-2-pentanone (MIBK)	12000	U	12000	33000
Acetone	11000	U	11000	33000
Benzene	800	U	800	3300
Bromobenzene	400	U	400	3300
Bromoform	1900	U	1900	3300
Bromomethane	2100	U	2100	3300
Carbon disulfide	930	U	930	3300
Carbon tetrachloride	570	U	570	3300
Chlorobenzene	630	U	630	3300
Chlorodibromomethane	1400	U	1400	3300
Chloroethane	1100	U	1100	3300
Chloroform	700	U	700	3300
Chloromethane	1500	U	1500	3300
cis-1,2-Dichloroethene	670	U	670	3300
cis-1,3-Dichloropropene	1500	U	1500	3300
Dibromomethane	570	U	570	3300
Bromochloromethane	830	U	830	3300
Dichlorodifluoromethane	1700	U	1700	3300
Bromodichloromethane	500	U	500	3300
tert-Butyl alcohol	29000	U *	29000	170000

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-401-091914**

Lab Sample ID: 240-42186-7 Date Sampled: 09/19/2014 1215
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4543.D
Dilution:	3333.33			Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 2057			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 2057				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	770	U	770	3300
Hexachlorobutadiene	1200	U	1200	3300
Diisopropyl ether	630	U	630	33000
Isopropylbenzene	1200	U	1200	3300
Methyl tert-butyl ether	530	U	530	3300
Methylene Chloride	930	U	930	3300
m-Xylene & p-Xylene	730	U	730	6700
Naphthalene	1500	U	1500	3300
n-Butylbenzene	730	U	730	3300
N-Propylbenzene	1300	U	1300	3300
o-Xylene	700	U	700	3300
sec-Butylbenzene	1600	U	1600	3300
Styrene	1500	U	1500	3300
Tert-amyl methyl ether	530	U	530	17000
Ethyl tert-butyl ether	670	U	670	17000
Tetrachloroethene	670	U	670	3300
Toluene	730	U	730	3300
trans-1,2-Dichloroethene	870	U	870	3300
trans-1,3-Dichloropropene	1900	U	1900	3300
Trichloroethene	83000		500	3300
Trichlorofluoromethane	1600	U *	1600	3300
Vinyl acetate	1400	U	1400	6700
Vinyl chloride	970	U	970	3300
Xylenes, Total	1400	U	1400	6700
tert-Butylbenzene	1400	U	1400	3300
1,2-Dibromoethane	630	U	630	3300

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	91		74 - 120
Dibromofluoromethane (Surr)	83		75 - 121
4-Bromofluorobenzene (Surr)	72		66 - 120
1,2-Dichloroethane-d4 (Surr)	76		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-1-091914**

Lab Sample ID: 240-42186-1 Date Sampled: 09/19/2014 1140
Client Matrix: Water Date Received: 09/20/2014 0940

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	240-148259	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-147984	Lab File ID:	I9092314A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1243			Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 0943				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	0.92	U	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	32		1.9	25
Nickel	110		0.76	40
Lead	3.9	J	1.9	10
Zinc	200	B	9.6	50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	240-148422	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-147988	Lab File ID:	092314A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1511			Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 1415				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.18	J	0.090	0.20

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-2-091914**

Lab Sample ID: 240-42186-2 Date Sampled: 09/19/2014 1145
Client Matrix: Water Date Received: 09/20/2014 0940

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	240-148259	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-147984	Lab File ID:	I9092314A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1247			Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 0943				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	0.92	U	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	14	J	1.9	25
Nickel	74		0.76	40
Lead	4.6	J	1.9	10
Zinc	2400	B	9.6	50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	240-148422	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-147988	Lab File ID:	092314A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1513			Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 1415				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.090	U	0.090	0.20

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Client Sample ID: **WSP-4-091914**

Lab Sample ID: 240-42186-8 Date Sampled: 09/19/2014 1155
Client Matrix: Water Date Received: 09/20/2014 0940

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	240-148259	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-147984	Lab File ID:	I9092314A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1251			Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 0943				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	0.92	U	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	9.5	J	1.9	25
Nickel	1.0	J	0.76	40
Lead	1.9	U	1.9	10
Zinc	120	B	9.6	50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	240-148422	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-147988	Lab File ID:	092314A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1518			Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 1415				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.090	U	0.090	0.20

Client: Tetra Tech, Inc.

Job Number: 240-42186-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-42186-1	WSP-1-091914	86	82	87	73
240-42186-2	WSP-2-091914	83	78	89	76
240-42186-3	WSP-3-091914	84	81	84	71
240-42186-4	WSP-101-091914	86	83	86	70
240-42186-5	WSP-201-091914	84	82	85	71
240-42186-6	WSP-301-091914	85	82	88	72
240-42186-7	WSP-401-091914	83	76	91	72
MB 240-148401/32		83	81	83	73
LCS 240-148401/4		84	74	90	77
240-42186-7 MS	WSP-401-091914 MS	84	75	87	79
240-42186-7 MSD	WSP-401-091914 MSD	84	76	87	79

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Method Blank - Batch: 240-148401

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-148401/32	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4520.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1216	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1216				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Method Blank - Batch: 240-148401

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-148401/32	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4520.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1216	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1216				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
tert-Butyl alcohol	8.7	U	8.7	50
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	83	74 - 120
Dibromofluoromethane (Surr)	83	75 - 121
4-Bromofluorobenzene (Surr)	73	66 - 120
1,2-Dichloroethane-d4 (Surr)	81	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Lab Control Sample - Batch: 240-148401

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-148401/4	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4515.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1022	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1022				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	9.57	96	72 - 120	
1,1,1-Trichloroethane	10.0	9.77	98	74 - 120	
1,1,2,2-Tetrachloroethane	10.0	10.6	106	68 - 120	
1,1,2-Trichlorotrifluoroethane	10.0	11.5	115	74 - 151	
1,1-Dichloroethane	10.0	9.83	98	80 - 120	
1,1-Dichloroethene	10.0	10.2	102	78 - 131	
1,1-Dichloropropene	10.0	10.1	101	80 - 120	
1,2,3-Trichlorobenzene	10.0	8.08	81	54 - 126	
1,2,3-Trichloropropane	10.0	9.62	96	73 - 129	
1,2,4-Trichlorobenzene	10.0	9.10	91	48 - 135	
1,2,4-Trimethylbenzene	10.0	10.6	106	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	7.51	75	42 - 136	
1,2-Dichlorobenzene	10.0	10.4	104	80 - 120	
1,2-Dichloroethane	10.0	8.81	88	71 - 127	
1,2-Dichloropropane	10.0	10.2	102	80 - 120	
1,3-Dichlorobenzene	10.0	10.4	104	80 - 120	
1,3-Dichloropropane	10.0	9.80	98	79 - 120	
1,4-Dichlorobenzene	10.0	10.5	105	80 - 120	
2,2-Dichloropropane	10.0	8.53	85	50 - 129	
2-Butanone (MEK)	20.0	17.4	87	60 - 126	
2-Chloroethyl vinyl ether	12.0	10.2	85	52 - 131	
2-Chlorotoluene	10.0	11.0	110	76 - 120	
2-Hexanone	20.0	14.5	73	55 - 133	
4-Chlorotoluene	10.0	10.1	101	77 - 120	
4-Isopropyltoluene	10.0	11.1	111	74 - 120	
4-Methyl-2-pentanone (MIBK)	20.0	14.2	71	63 - 128	
Acetone	20.0	14.7	74	43 - 136	
Benzene	10.0	9.95	99	80 - 120	
Bromobenzene	10.0	10.4	104	76 - 120	
Bromoform	10.0	7.34	73	40 - 131	
Bromomethane	10.0	15.2	152	11 - 185	
Carbon disulfide	10.0	10.8	108	62 - 142	
Carbon tetrachloride	10.0	9.48	95	66 - 128	
Chlorobenzene	10.0	10.5	105	80 - 120	
Chlorodibromomethane	10.0	8.65	86	64 - 120	
Chloroethane	10.0	12.2	122	25 - 153	
Chloroform	10.0	9.53	95	79 - 120	
Chloromethane	10.0	11.3	113	44 - 126	
cis-1,2-Dichloroethene	10.0	10.1	101	80 - 120	
cis-1,3-Dichloropropene	10.0	9.05	90	61 - 120	
Dibromomethane	10.0	9.81	98	80 - 120	
Bromochloromethane	10.0	10.0	100	77 - 120	
Dichlorodifluoromethane	10.0	9.78	98	19 - 129	
Bromodichloromethane	10.0	9.28	93	72 - 121	
tert-Butyl alcohol	100	54.4	54	70 - 130	*
Ethylbenzene	10.0	10.6	106	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Lab Control Sample - Batch: 240-148401

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-148401/4	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4515.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 1022	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 1022				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorobutadiene	10.0	9.17	92	36 - 134	
Isopropylbenzene	10.0	10.5	105	75 - 120	
Methyl tert-butyl ether	10.0	7.49	75	52 - 144	
Methylene Chloride	10.0	11.3	113	66 - 131	
m-Xylene & p-Xylene	10.0	10.1	101	80 - 120	
Naphthalene	10.0	7.11	71	32 - 141	
n-Butylbenzene	10.0	10.7	107	66 - 125	
N-Propylbenzene	10.0	11.2	112	74 - 121	
o-Xylene	10.0	10.6	106	80 - 120	
sec-Butylbenzene	10.0	11.3	113	70 - 120	
Styrene	10.0	10.3	103	79 - 120	
Tetrachloroethene	10.0	10.9	109	79 - 120	
Toluene	10.0	10.8	108	80 - 120	
trans-1,2-Dichloroethene	10.0	10.5	105	80 - 120	
trans-1,3-Dichloropropene	10.0	8.50	85	58 - 120	
Trichloroethene	10.0	9.96	100	76 - 120	
Trichlorofluoromethane	10.0	18.2	182	49 - 157	*
Vinyl acetate	8.00	4.74	59	46 - 161	
Vinyl chloride	10.0	10.7	107	53 - 127	
Xylenes, Total	20.0	20.7	104	80 - 120	
tert-Butylbenzene	10.0	11.1	111	71 - 120	
1,2-Dibromoethane	10.0	9.43	94	79 - 120	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	90	74 - 120
Dibromofluoromethane (Surr)	84	75 - 121
4-Bromofluorobenzene (Surr)	77	66 - 120
1,2-Dichloroethane-d4 (Surr)	74	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-148401

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42186-7	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4541.D
Dilution:	3333.33	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 2012			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 2012				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-42186-7	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4542.D
Dilution:	3333.33	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 2034			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 2034				5 mL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	31	55	64 - 120	54	30	F1	F1 F2
1,1,1-Trichloroethane	37	64	68 - 121	54	30	F1	F1 F2
1,1,2,2-Tetrachloroethane	46	71	63 - 122	44	30	F1	F2
1,1,2-Trichlorotrifluoroethane	52	81	70 - 152	44	30	F1	F2
1,1-Dichloroethane	43	69	79 - 120	48	30	F1	F1 F2
1,1-Dichloroethene	45	73	74 - 135	48	30	F1	F1 F2
1,1-Dichloropropene	44	71	80 - 120	47	30	F1	F1 F2
1,2,3-Trichlorobenzene	40	71	45 - 129	55	30	F1	F2
1,2,3-Trichloropropane	41	65	67 - 132	46	30	F1	F1 F2
1,2,4-Trichlorobenzene	44	73	38 - 138	50	30		F2
1,2,4-Trimethylbenzene	44	73	67 - 124	50	30	F1	F2
1,2-Dibromo-3-Chloropropane	27	45	32 - 139	49	30	F1	F2
1,2-Dichlorobenzene	47	76	75 - 120	46	30	F1	F2
1,2-Dichloroethane	40	63	68 - 129	45	30	F1	F1 F2
1,2-Dichloropropane	44	72	78 - 120	49	30	F1	F1 F2
1,3-Dichlorobenzene	47	72	73 - 120	42	30	F1	F1 F2
1,3-Dichloropropane	42	67	74 - 120	47	30	F1	F1 F2
1,4-Dichlorobenzene	45	72	75 - 120	45	30	F1	F1 F2
2,2-Dichloropropane	31	53	38 - 127	52	30	F1	F2
2-Butanone (MEK)	41	65	54 - 129	44	30	J F1	F2
2-Chloroethyl vinyl ether	37	61	10 - 150	50	30	J	J F2
2-Chlorotoluene	48	76	69 - 120	45	30	F1	F2
2-Hexanone	28	48	47 - 139	52	30	J F1	J F2
4-Chlorotoluene	43	69	71 - 120	46	30	F1	F1 F2
4-Isopropyltoluene	46	77	64 - 122	51	30	F1	F2
4-Methyl-2-pentanone (MIBK)	31	53	56 - 131	52	30	J F1	F1 F2
Acetone	30	59	33 - 145	66	30	J F1	F2
Benzene	43	70	72 - 121	49	30	F1	F1 F2
Bromobenzene	47	73	71 - 120	44	30	F1	F2
Bromoform	28	43	32 - 128	43	30	F1	F2
Bromomethane	87	132	10 - 186	42	30		F2
Carbon disulfide	51	81	57 - 147	46	30	F1	F2
Carbon tetrachloride	33	58	59 - 129	54	30	F1	F1 F2

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-148401

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42186-7	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4541.D
Dilution:	3333.33	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 2012			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 2012				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-42186-7	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4542.D
Dilution:	3333.33	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 2034			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 2034				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chlorobenzene	45	72	80 - 120	47	30	F1	F1 F2
Chlorodibromomethane	32	52	56 - 120	47	30	F1	F1 F2
Chloroethane	72	109	21 - 165	42	30		F2
Chloroform	40	68	76 - 120	52	30	F1	F1 F2
Chloromethane	66	100	33 - 132	41	30		F2
cis-1,2-Dichloroethene	42	70	70 - 120	50	30	F1	F2
cis-1,3-Dichloropropene	29	51	51 - 120	56	30	F1	F2
Dibromomethane	44	72	77 - 121	48	30	F1	F1 F2
Bromochloromethane	44	70	73 - 121	45	30	F1	F1 F2
Dichlorodifluoromethane	53	85	17 - 128	46	30		F2
Bromodichloromethane	35	61	67 - 120	53	30	F1	F1 F2
tert-Butyl alcohol	34	59	70 - 130	54	30	J F1	F1 F2
Ethylbenzene	43	71	75 - 120	48	30	F1	F1 F2
Hexachlorobutadiene	40	72	27 - 132	57	30		F2
Isopropylbenzene	43	71	68 - 120	50	30	F1	F2
Methyl tert-butyl ether	32	53	46 - 144	48	30	F1	F2
Methylene Chloride	51	86	63 - 128	52	30	F1	F2
m-Xylene & p-Xylene	42	68	75 - 120	47	30	F1	F1 F2
Naphthalene	33	62	15 - 158	60	30		F2
n-Butylbenzene	45	74	56 - 127	49	30	F1	F2
N-Propylbenzene	46	75	64 - 124	49	30	F1	F2
o-Xylene	44	73	76 - 120	50	30	F1	F1 F2
sec-Butylbenzene	48	78	60 - 120	49	30	F1	F2
Styrene	42	69	71 - 120	48	30	F1	F1 F2
Tetrachloroethene	46	76	70 - 120	50	30	F1	F2
Toluene	45	73	78 - 120	48	30	F1	F1 F2
trans-1,2-Dichloroethene	46	76	80 - 120	50	30	F1	F1 F2
trans-1,3-Dichloropropene	24	44	46 - 120	59	30	F1	F1 F2
Trichloroethene	40	52	66 - 120	4	30	F1	F1
Trichlorofluoromethane	105	163	46 - 157	43	30		F1 F2
Vinyl acetate	26	38	43 - 157	37	30	F1	F1 F2
Vinyl chloride	64	97	49 - 130	40	30		F2
Xylenes, Total	43	71	76 - 120	49	30	F1	F1 F2

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-148401

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42186-7	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4541.D
Dilution:	3333.33	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 2012			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 2012				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-42186-7	Analysis Batch:	240-148401	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4542.D
Dilution:	3333.33	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/24/2014 2034			Final Weight/Volume:	5 mL
Prep Date:	09/24/2014 2034				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
tert-Butylbenzene	45	74	61 - 120	49	30	F1	F2
1,2-Dibromoethane	40	64	74 - 120	47	30	F1	F1 F2

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	87	87	74 - 120
Dibromofluoromethane (Surr)	84	84	75 - 121
4-Bromofluorobenzene (Surr)	79	79	66 - 120
1,2-Dichloroethane-d4 (Surr)	75	76	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-148401

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42186-7	Units: ug/L	MSD Lab Sample ID:	240-42186-7	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	3333.33		Dilution:	3333.33	
Analysis Date:	09/24/2014 2012		Analysis Date:	09/24/2014 2034	
Prep Date:	09/24/2014 2012		Prep Date:	09/24/2014 2034	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1,2-Tetrachloroethane	930	U	33300	33300	10500	F1	18200	F1 F2
1,1,1-Trichloroethane	730	U	33300	33300	12300	F1	21400	F1 F2
1,1,2,2-Tetrachloroethane	730	U	33300	33300	15200	F1	23700	F2
1,1,2-Trichlorotrifluoroethane	1200	U	33300	33300	17200	F1	27000	F2
1,1-Dichloroethane	870	U	33300	33300	14200	F1	23000	F1 F2
1,1-Dichloroethene	1500	U	33300	33300	14900	F1	24400	F1 F2
1,1-Dichloropropene	730	U	33300	33300	14600	F1	23600	F1 F2
1,2,3-Trichlorobenzene	1200	U	33300	33300	13400	F1	23700	F2
1,2,3-Trichloropropane	1000	U	33300	33300	13500	F1	21700	F1 F2
1,2,4-Trichlorobenzene	1100	U	33300	33300	14600		24300	F2
1,2,4-Trimethylbenzene	1400	U	33300	33300	14700	F1	24400	F2
1,2-Dibromo-3-Chloropropane	2700	U	33300	33300	9080	F1	15000	F2
1,2-Dichlorobenzene	570	U	33300	33300	15700	F1	25300	F2
1,2-Dichloroethane	670	U	33300	33300	13300	F1	21000	F1 F2
1,2-Dichloropropane	730	U	33300	33300	14500	F1	23900	F1 F2
1,3-Dichlorobenzene	570	U	33300	33300	15700	F1	24000	F1 F2
1,3-Dichloropropane	600	U	33300	33300	13900	F1	22500	F1 F2
1,4-Dichlorobenzene	530	U	33300	33300	15200	F1	23900	F1 F2
2,2-Dichloropropane	870	U	33300	33300	10400	F1	17700	F2
2-Butanone (MEK)	14000	U	66700	66700	27600	J F1	43400	F2
2-Chloroethyl vinyl ether	3900	U	40000	40000	14600	J	24200	J F2
2-Chlorotoluene	670	U	33300	33300	16100	F1	25300	F2
2-Hexanone	13000	U	66700	66700	18900	J F1	32200	J F2
4-Chlorotoluene	730	U	33300	33300	14400	F1	23000	F1 F2
4-Isopropyltoluene	1400	U	33300	33300	15300	F1	25600	F2
4-Methyl-2-pentanone (MIBK)	12000	U	66700	66700	20800	J F1	35500	F1 F2
Acetone	11000	U	66700	66700	19800	J F1	39500	F2
Benzene	800	U	33300	33300	14200	F1	23400	F1 F2
Bromobenzene	400	U	33300	33300	15500	F1	24200	F2
Bromoform	1900	U	33300	33300	9180	F1	14200	F2
Bromomethane	2100	U	33300	33300	28900		44000	F2
Carbon disulfide	930	U	33300	33300	17000	F1	27000	F2
Carbon tetrachloride	570	U	33300	33300	11000	F1	19200	F1 F2
Chlorobenzene	630	U	33300	33300	15000	F1	24100	F1 F2
Chlorodibromomethane	1400	U	33300	33300	10700	F1	17200	F1 F2
Chloroethane	1100	U	33300	33300	23900		36500	F2
Chloroform	700	U	33300	33300	13300	F1	22700	F1 F2
Chloromethane	1500	U	33300	33300	22000		33200	F2
cis-1,2-Dichloroethene	670	U	33300	33300	14100	F1	23500	F2
cis-1,3-Dichloropropene	1500	U	33300	33300	9530	F1	16800	F2
Dibromomethane	570	U	33300	33300	14800	F1	24000	F1 F2
Bromochloromethane	830	U	33300	33300	14800	F1	23300	F1 F2
Dichlorodifluoromethane	1700	U	33300	33300	17700		28200	F2

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-148401

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42186-7	Units: ug/L	MSD Lab Sample ID:	240-42186-7	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	3333.33		Dilution:	3333.33	
Analysis Date:	09/24/2014 2012		Analysis Date:	09/24/2014 2034	
Prep Date:	09/24/2014 2012		Prep Date:	09/24/2014 2034	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Bromodichloromethane	500	U	33300	33300	11700	F1	20300	F1 F2
tert-Butyl alcohol	29000	U	333000	333000	114000	J F1	198000	F1 F2
Ethylbenzene	770	U	33300	33300	14500	F1	23800	F1 F2
Hexachlorobutadiene	1200	U	33300	33300	13400		24100	F2
Isopropylbenzene	1200	U	33300	33300	14300	F1	23800	F2
Methyl tert-butyl ether	530	U	33300	33300	10800	F1	17700	F2
Methylene Chloride	930	U	33300	33300	16900	F1	28700	F2
m-Xylene & p-Xylene	730	U	33300	33300	14000	F1	22700	F1 F2
Naphthalene	1500	U	33300	33300	11100		20500	F2
n-Butylbenzene	730	U	33300	33300	15000	F1	24700	F2
N-Propylbenzene	1300	U	33300	33300	15200	F1	25000	F2
o-Xylene	700	U	33300	33300	14600	F1	24300	F1 F2
sec-Butylbenzene	1600	U	33300	33300	15900	F1	26100	F2
Styrene	1500	U	33300	33300	14000	F1	23000	F1 F2
Tetrachloroethene	670	U	33300	33300	15300	F1	25400	F2
Toluene	730	U	33300	33300	15000	F1	24400	F1 F2
trans-1,2-Dichloroethene	870	U	33300	33300	15200	F1	25400	F1 F2
trans-1,3-Dichloropropene	1900	U	33300	33300	7980	F1	14700	F1 F2
Trichloroethene	83000		33300	33300	96700	F1	101000	F1
Trichlorofluoromethane	1600	U	33300	33300	35100		54500	F1 F2
Vinyl acetate	1400	U	26700	26700	6970	F1	10100	F1 F2
Vinyl chloride	970	U	33300	33300	21400		32200	F2
Xylenes, Total	1400	U	66700	66700	28600	F1	47000	F1 F2
tert-Butylbenzene	1400	U	33300	33300	15000	F1	24600	F2
1,2-Dibromoethane	630	U	33300	33300	13300	F1	21400	F1 F2

Method Blank - Batch: 240-147984

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 240-147984/1-A	Analysis Batch:	240-148259	Instrument ID:	I9
Client Matrix:	Water	Prep Batch:	240-147984	Lab File ID:	I9092314A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1235	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 0943				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Silver	0.92	U	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	1.9	U	1.9	25
Nickel	0.76	U	0.76	40
Lead	1.9	U	1.9	10
Zinc	9.64	J	9.6	50

Lab Control Sample - Batch: 240-147984

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 240-147984/2-A	Analysis Batch:	240-148259	Instrument ID:	I9
Client Matrix:	Water	Prep Batch:	240-147984	Lab File ID:	I9092314A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1240	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 0943				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	49.9	100	80 - 120	
Arsenic	2000	2000	100	80 - 120	
Barium	2000	1910	96	80 - 120	
Beryllium	50.0	49.5	99	80 - 120	
Cadmium	50.0	50.3	101	80 - 120	
Chromium	200	194	97	80 - 120	
Copper	250	245	98	80 - 120	
Manganese	500	495	99	80 - 120	
Nickel	500	497	99	80 - 120	
Lead	500	487	97	80 - 120	
Zinc	500	514	103	80 - 120	
Antimony	500	510	102	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Method Blank - Batch: 240-147988

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 240-147988/1-A	Analysis Batch:	240-148422	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-147988	Lab File ID:	092314A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1457	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 1415				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.090	U	0.090	0.20

Lab Control Sample - Batch: 240-147988

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 240-147988/2-A	Analysis Batch:	240-148422	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-147988	Lab File ID:	092314A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1458	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 1415				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	5.75	115	81 - 123	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-147988

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	240-42127-A-1-E MS	Analysis Batch:	240-148422	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-147988	Lab File ID:	092314A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1502			Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 1415				
Leach Date:	N/A				

MSD Lab Sample ID:	240-42127-A-1-F MSD	Analysis Batch:	240-148422	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-147988	Lab File ID:	092314A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	09/23/2014 1504			Final Weight/Volume:	50 mL
Prep Date:	09/22/2014 1415				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	113	120	69 - 134	6	20		

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-147988

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	240-42127-A-1-E MS	Units:	ug/L	MSD Lab Sample ID:	240-42127-A-1-F MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/23/2014 1502			Analysis Date:	09/23/2014 1504
Prep Date:	09/22/2014 1415			Prep Date:	09/22/2014 1415
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.090	U	1.00	1.00	1.13	1.20

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	F1	MS and/or MSD Recovery exceeds the control limits
	F2	MS/MSD RPD exceeds control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Tetra Tech, Inc. Job Number: 240-42186-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-148401					
LCS 240-148401/4	Lab Control Sample	T	Water	8260C	
MB 240-148401/32	Method Blank	T	Water	8260C	
240-42186-1	WSP-1-091914	T	Water	8260C	
240-42186-2	WSP-2-091914	T	Water	8260C	
240-42186-3	WSP-3-091914	T	Water	8260C	
240-42186-4	WSP-101-091914	T	Water	8260C	
240-42186-5	WSP-201-091914	T	Water	8260C	
240-42186-6	WSP-301-091914	T	Water	8260C	
240-42186-7	WSP-401-091914	T	Water	8260C	
240-42186-7MS	Matrix Spike	T	Water	8260C	
240-42186-7MSD	Matrix Spike Duplicate	T	Water	8260C	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-42186-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-147984					
LCS 240-147984/2-A	Lab Control Sample	R	Water	3005A	
MB 240-147984/1-A	Method Blank	R	Water	3005A	
240-42186-1	WSP-1-091914	R	Water	3005A	
240-42186-2	WSP-2-091914	R	Water	3005A	
240-42186-8	WSP-4-091914	R	Water	3005A	
Prep Batch: 240-147988					
LCS 240-147988/2-A	Lab Control Sample	T	Water	7470A	
MB 240-147988/1-A	Method Blank	T	Water	7470A	
240-42127-A-1-E MS	Matrix Spike	T	Water	7470A	
240-42127-A-1-F MSD	Matrix Spike Duplicate	T	Water	7470A	
240-42186-1	WSP-1-091914	T	Water	7470A	
240-42186-2	WSP-2-091914	T	Water	7470A	
240-42186-8	WSP-4-091914	T	Water	7470A	
Analysis Batch:240-148259					
LCS 240-147984/2-A	Lab Control Sample	R	Water	6010C	240-147984
MB 240-147984/1-A	Method Blank	R	Water	6010C	240-147984
240-42186-1	WSP-1-091914	R	Water	6010C	240-147984
240-42186-2	WSP-2-091914	R	Water	6010C	240-147984
240-42186-8	WSP-4-091914	R	Water	6010C	240-147984
Analysis Batch:240-148422					
LCS 240-147988/2-A	Lab Control Sample	T	Water	7470A	240-147988
MB 240-147988/1-A	Method Blank	T	Water	7470A	240-147988
240-42127-A-1-E MS	Matrix Spike	T	Water	7470A	240-147988
240-42127-A-1-F MSD	Matrix Spike Duplicate	T	Water	7470A	240-147988
240-42186-1	WSP-1-091914	T	Water	7470A	240-147988
240-42186-2	WSP-2-091914	T	Water	7470A	240-147988
240-42186-8	WSP-4-091914	T	Water	7470A	240-147988

Report Basis
R = Total Recoverable
T = Total

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Laboratory Chronicle

Lab ID: 240-42186-1 **Client ID: WSP-1-091914**

Sample Date/Time: 09/19/2014 11:40 Received Date/Time: 09/20/2014 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42186-B-1		240-148401		09/24/2014 13:07	3333.33	TAL CAN	LEE
A:8260C	240-42186-B-1		240-148401		09/24/2014 13:07	3333.33	TAL CAN	LEE
P:3005A	240-42186-E-1-A		240-148259	240-147984	09/22/2014 09:43	1	TAL CAN	WAL
A:6010C	240-42186-E-1-A		240-148259	240-147984	09/23/2014 12:43	1	TAL CAN	ADS
P:7470A	240-42186-E-1-B		240-148422	240-147988	09/22/2014 14:15	1	TAL CAN	WAL
A:7470A	240-42186-E-1-B		240-148422	240-147988	09/23/2014 15:11	1	TAL CAN	AMM2

Lab ID: 240-42186-2 **Client ID: WSP-2-091914**

Sample Date/Time: 09/19/2014 11:45 Received Date/Time: 09/20/2014 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42186-A-2		240-148401		09/24/2014 21:19	1	TAL CAN	LEE
A:8260C	240-42186-A-2		240-148401		09/24/2014 21:19	1	TAL CAN	LEE
P:3005A	240-42186-D-2-A		240-148259	240-147984	09/22/2014 09:43	1	TAL CAN	WAL
A:6010C	240-42186-D-2-A		240-148259	240-147984	09/23/2014 12:47	1	TAL CAN	ADS
P:7470A	240-42186-D-2-B		240-148422	240-147988	09/22/2014 14:15	1	TAL CAN	WAL
A:7470A	240-42186-D-2-B		240-148422	240-147988	09/23/2014 15:13	1	TAL CAN	AMM2

Lab ID: 240-42186-3 **Client ID: WSP-3-091914**

Sample Date/Time: 09/19/2014 11:50 Received Date/Time: 09/20/2014 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42186-A-3		240-148401		09/24/2014 15:45	1	TAL CAN	LEE
A:8260C	240-42186-A-3		240-148401		09/24/2014 15:45	1	TAL CAN	LEE

Lab ID: 240-42186-4 **Client ID: WSP-101-091914**

Sample Date/Time: 09/19/2014 12:00 Received Date/Time: 09/20/2014 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42186-B-4		240-148401		09/24/2014 14:38	3333.33	TAL CAN	LEE
A:8260C	240-42186-B-4		240-148401		09/24/2014 14:38	3333.33	TAL CAN	LEE

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Laboratory Chronicle

Lab ID: 240-42186-5 **Client ID:** WSP-201-091914

Sample Date/Time: 09/19/2014 12:05 Received Date/Time: 09/20/2014 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42186-B-5		240-148401		09/24/2014 15:01	3333.33	TAL CAN	LEE
A:8260C	240-42186-B-5		240-148401		09/24/2014 15:01	3333.33	TAL CAN	LEE

Lab ID: 240-42186-6 **Client ID:** WSP-301-091914

Sample Date/Time: 09/19/2014 12:10 Received Date/Time: 09/20/2014 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42186-B-6		240-148401		09/24/2014 15:23	3333.33	TAL CAN	LEE
A:8260C	240-42186-B-6		240-148401		09/24/2014 15:23	3333.33	TAL CAN	LEE

Lab ID: 240-42186-7 **Client ID:** WSP-401-091914

Sample Date/Time: 09/19/2014 12:15 Received Date/Time: 09/20/2014 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42186-B-7		240-148401		09/24/2014 20:57	3333.33	TAL CAN	LEE
A:8260C	240-42186-B-7		240-148401		09/24/2014 20:57	3333.33	TAL CAN	LEE

Lab ID: 240-42186-7 MS **Client ID:** WSP-401-091914

Sample Date/Time: 09/19/2014 12:15 Received Date/Time: 09/20/2014 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42186-B-7 MS		240-148401		09/24/2014 20:12	3333.33	TAL CAN	LEE
A:8260C	240-42186-B-7 MS		240-148401		09/24/2014 20:12	3333.33	TAL CAN	LEE

Lab ID: 240-42186-7 MSD **Client ID:** WSP-401-091914

Sample Date/Time: 09/19/2014 12:15 Received Date/Time: 09/20/2014 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42186-B-7 MSD		240-148401		09/24/2014 20:34	3333.33	TAL CAN	LEE
A:8260C	240-42186-B-7 MSD		240-148401		09/24/2014 20:34	3333.33	TAL CAN	LEE

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Laboratory Chronicle

Lab ID: 240-42186-8 **Client ID: WSP-4-091914**

Sample Date/Time: 09/19/2014 11:55 Received Date/Time: 09/20/2014 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	240-42186-A-8-A		240-148259	240-147984	09/22/2014 09:43	1	TAL CAN	WAL
A:6010C	240-42186-A-8-A		240-148259	240-147984	09/23/2014 12:51	1	TAL CAN	ADS
P:7470A	240-42186-A-8-B		240-148422	240-147988	09/22/2014 14:15	1	TAL CAN	WAL
A:7470A	240-42186-A-8-B		240-148422	240-147988	09/23/2014 15:18	1	TAL CAN	AMM2

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 240-148401/32		240-148401		09/24/2014 12:16	1	TAL CAN	LEE
A:8260C	MB 240-148401/32		240-148401		09/24/2014 12:16	1	TAL CAN	LEE
P:3005A	MB 240-147984/1-A		240-148259	240-147984	09/22/2014 09:43	1	TAL CAN	WAL
A:6010C	MB 240-147984/1-A		240-148259	240-147984	09/23/2014 12:35	1	TAL CAN	ADS
P:7470A	MB 240-147988/1-A		240-148422	240-147988	09/22/2014 14:15	1	TAL CAN	WAL
A:7470A	MB 240-147988/1-A		240-148422	240-147988	09/23/2014 14:57	1	TAL CAN	AMM2

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 240-148401/4		240-148401		09/24/2014 10:22	1	TAL CAN	LEE
A:8260C	LCS 240-148401/4		240-148401		09/24/2014 10:22	1	TAL CAN	LEE
P:3005A	LCS 240-147984/2-A		240-148259	240-147984	09/22/2014 09:43	1	TAL CAN	WAL
A:6010C	LCS 240-147984/2-A		240-148259	240-147984	09/23/2014 12:40	1	TAL CAN	ADS
P:7470A	LCS 240-147988/2-A		240-148422	240-147988	09/22/2014 14:15	1	TAL CAN	WAL
A:7470A	LCS 240-147988/2-A		240-148422	240-147988	09/23/2014 14:58	1	TAL CAN	AMM2

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 09/18/2014 13:45 Received Date/Time: 09/19/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	240-42127-A-1-E MS		240-148422	240-147988	09/22/2014 14:15	1	TAL CAN	WAL
A:7470A	240-42127-A-1-E MS		240-148422	240-147988	09/23/2014 15:02	1	TAL CAN	AMM2

Client: Tetra Tech, Inc. Job Number: 240-42186-1

Laboratory Chronicle

Lab ID: **MSD** **Client ID:** **N/A**

Sample Date/Time: 09/18/2014 13:45 Received Date/Time: 09/19/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	240-42127-A-1-F MSD		240-148422	240-147988	09/22/2014 14:15	1	TAL CAN	WAL
A:7470A	240-42127-A-1-F MSD		240-148422	240-147988	09/23/2014 15:04	1	TAL CAN	AMM2

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
K2S2O8_00012	07/27/16	09/10/14	DIWATER, Lot DIWATER	2.5 L	MTK2S208_00014	125 g	Potassium persulfate	0.05 g/g
.MTK2S208_00014	07/27/16		Macron, Lot 0000046094		(Purchased Reagent)		Potassium persulfate	1 g/g
MT6500ICV_00021	11/14/14	09/17/14	DIWATER, Lot DIWATER	1000 mL	MTTRICV3_00004	6 mL	Barium	1500 ug/L
							Beryllium	1500 ug/L
							Chromium	1500 ug/L
							Copper	1500 ug/L
							Manganese	1500 ug/L
							Nickel	1500 ug/L
							Zinc	1500 ug/L
					MTTRICV5_00010	1.5 mL	Antimony	375 ug/L
							Arsenic	375 ug/L
							Cadmium	375 ug/L
							Lead	375 ug/L
					MTTRICVAG_00004	7.5 mL	Silver	750 ug/L
.MTTRICV3_00004	06/01/15		CPI, Lot 1060597		(Purchased Reagent)		Barium	250 mg/L
							Beryllium	250 mg/L
							Chromium	250 mg/L
							Copper	250 mg/L
							Manganese	250 mg/L
							Nickel	250 mg/L
							Zinc	250 mg/L
.MTTRICV5_00010	06/01/15		CPI, Lot 1060598		(Purchased Reagent)		Antimony	250 ug/mL
							Arsenic	250 ug/mL
							Cadmium	250 ug/mL
							Lead	250 ug/mL
.MTTRICVAG_00004	01/02/15		CPI, Lot 1048231		(Purchased Reagent)		Silver	100 mg/L
MTAGSPIKEW_00042	03/09/15	09/09/14	DIWATER, Lot DIWATER	1000 mL	MTAG_00005	2.5 mL	Silver	2500 ug/L
					MTTMHNO3_00036	50 mL	Nitric acid	50000000 ug/L
.MTAG_00005	12/27/15		HIGH PURITY STANDARDS, Lot 1401302		(Purchased Reagent)		Silver	1000 ug/mL
.MTTMHNO3_00036	07/31/16		Macron, Lot 0000076768		(Purchased Reagent)		Nitric acid	100 %
MTH2S04_00020	09/18/16		Macron, Lot 0000056441		(Purchased Reagent)		Sulfuric acid	100 %
MTHGCALW_00727	09/22/14	09/22/14	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00013	1 mL	Mercury	100 ug/L
					MTTMHNO3_00038	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00013	07/01/15		INORGANIC VENTURES, Lot G2-HG02115		(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00038	09/04/16		JT Baker, Lot 0000084115		(Purchased Reagent)		Nitric acid	100 %
MTHgStd_00011	07/31/15		Teledyne Leeman, Lot 1368801		(Purchased Reagent)		Mercury	1 ug/mL
MTICP1_00033	01/27/15	08/28/14	DIWATER, Lot DI WATER	1000 mL	MTICPSPIKE1A_00007	50 mL	Al	100000 ug/L
							Arsenic	100000 ug/L
							B	50000 ug/L
							Barium	100000 ug/L
							Beryllium	2500 ug/L
							Cadmium	2500 ug/L
							Chromium	10000 ug/L
							Co	25000 ug/L
							Copper	12500 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fe	50000 ug/L
							Lead	25000 ug/L
							Manganese	25000 ug/L
							Nickel	25000 ug/L
							Se	100000 ug/L
							Tl	100000 ug/L
							V	25000 ug/L
							Zinc	25000 ug/L
					MTICPSPIKEB_00007	50 mL	Antimony	25000 ug/L
							Mo	50000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00004	50 mL	Li	50000 ug/L
							Si	50000 ug/L
							SiO2	107000 ug/L
							Sr	50000 ug/L
					MTTMHNO3_00037	50 mL	Nitric acid	50000000 ug/L
.MTICPSPIKE1A_00007	01/27/15	High Purity Standards, Lot 1402729			(Purchased Reagent)		Al	2000 ug/mL
							Arsenic	2000 ug/mL
							B	1000 ug/mL
							Barium	2000 ug/mL
							Beryllium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Copper	250 ug/mL
							Fe	1000 ug/mL
							Lead	500 ug/mL
							Manganese	500 ug/mL
							Nickel	500 ug/mL
							Se	2000 ug/mL
							Tl	2000 ug/mL
							V	500 ug/mL
							Zinc	500 ug/mL
.MTICPSPIKEB_00007	01/27/15	High Purity Standards, Lot 1402315			(Purchased Reagent)		Antimony	500 ug/mL
							Mo	1000 ug/mL
							Sn	2000 ug/mL
							Ti	1000 ug/mL
.MTICPSpikeOdd_00004	01/27/15	High Purity Standards, Lot 1402316			(Purchased Reagent)		Li	1000 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sr	1000 ug/mL
.MTTMHNO3_00037	08/18/16	Macron, Lot LO8022			(Purchased Reagent)		Nitric acid	100 %
MTICP2A_00040	01/24/15	07/24/14	DIWATER, Lot DIWATER	1000 mL	MTTMHNO3_00034	50 mL	Nitric acid	50000 mg/L
					MTTRCAL2_00009	250 mL	Ca	2500 mg/L
							K	2500 mg/L
							Mg	2500 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Na	2500 mg/L
.MTTMHNO3_00034	07/01/16	Macron, Lot 0000067457			(Purchased Reagent)		Nitric acid	100 %
.MTTRCAL2_00009	07/17/15	HIGH PURITY STANDARDS, Lot 1331807			(Purchased Reagent)		Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
MTICPCCV_00030	03/15/15	09/15/14	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00005	200 mL	Arsenic	500 ug/L
							Barium	2000 ug/L
							Beryllium	2000 ug/L
							Cadmium	500 ug/L
							Chromium	2000 ug/L
							Copper	2000 ug/L
							Lead	500 ug/L
							Manganese	2000 ug/L
							Nickel	2000 ug/L
							Zinc	2000 ug/L
					MTICPCCV2_00005	200 mL	Antimony	500 ug/L
							Silver	1000 ug/L
.MTICPCCV1_00005	08/01/15	INORGANIC VENTURES, Lot H2-MEB523064			(Purchased Reagent)		Arsenic	5000 ug/L
							Barium	20000 ug/L
							Beryllium	20000 ug/L
							Cadmium	5000 ug/L
							Chromium	20000 ug/L
							Copper	20000 ug/L
							Lead	5000 ug/L
							Manganese	20000 ug/L
							Nickel	20000 ug/L
							Zinc	20000 ug/L
.MTICPCCV2_00005	08/01/15	INORGANIC VENTURES, Lot H2-MEB523065			(Purchased Reagent)		Antimony	5000 ug/L
							Silver	10000 ug/L
MTICPICSABW_00005	01/01/15	07/17/14	DIWATER, Lot DIWATER	1000 mL	MTICPICSAB1_00002	100 mL	Al	500000 ug/L
							Arsenic	1000 ug/L
							B	500 ug/L
							Barium	500 ug/L
							Beryllium	500 ug/L
							Ca	500000 ug/L
							Cadmium	1000 ug/L
							Chromium	500 ug/L
							Co	500 ug/L
							Copper	500 ug/L
							Fe	200000 ug/L
							K	10000 ug/L
							Lead	1000 ug/L
							Li	500 ug/L
							Manganese	500 ug/L
							Mg	500000 ug/L
							Na	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nickel	1000 ug/L
							Se	1000 ug/L
							Sr	1500 ug/L
							Tl	1000 ug/L
							V	500 ug/L
							Zinc	1000 ug/L
					MTICPICSAB2_00002	100 mL	Antimony	1000 ug/L
							Mo	1000 ug/L
							Si	10000 ug/L
							Silver	1000 ug/L
							Sn	500 ug/L
							Ti	500 ug/L
.MTICPICSAB1_00002	01/01/15	INORGANIC VENTURES, Lot G2-MEB505142			(Purchased Reagent)		Al	5000000 ug/L
							Arsenic	10000 ug/L
							B	5000 ug/L
							Barium	5000 ug/L
							Beryllium	5000 ug/L
							Ca	5000000 ug/L
							Cadmium	10000 ug/L
							Chromium	5000 ug/L
							Co	5000 ug/L
							Copper	5000 ug/L
							Fe	2000000 ug/L
							K	100000 ug/L
							Lead	10000 ug/L
							Li	5000 ug/L
							Manganese	5000 ug/L
							Mg	5000000 ug/L
							Na	100000 ug/L
							Nickel	10000 ug/L
							Se	10000 ug/L
							Sr	15000 ug/L
							Tl	10000 ug/L
							V	5000 ug/L
							Zinc	10000 ug/L
.MTICPICSAB2_00002	01/01/15	INORGANIC VENTURES, Lot G2-MEB505143			(Purchased Reagent)		Antimony	10000 ug/L
							Mo	10000 ug/L
							Si	100000 ug/L
							Silver	10000 ug/L
							Sn	5000 ug/L
							Ti	5000 ug/L
MTK2S208RGNT_00054	04/16/16	04/16/14	DIWATER, Lot DIWATER	1 L	MTK2S208_00011	100 g	Potassium persulfate	0.1 g/g
.MTK2S208_00011	10/10/17	Fisher, Lot 120909			(Purchased Reagent)		Potassium persulfate	1 g/g
MTKMN04W_00068	09/03/16	09/03/14	DIWATER, Lot DIWATER	2.5 L	MTKMN04_00018	125 g	Potassium Permanganate	0.05 g/g
.MTKMN04_00018	08/07/19	Fisher, Lot 121666			(Purchased Reagent)		Potassium Permanganate	1 g/g
MTTMHCL_00045	09/12/16	J.T. Baker/Avantor, Lot 0000083855			(Purchased Reagent)		Hydrogen Chloride	100 %

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MTTMHNO3_00038	09/04/16	JT Baker, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
MTTMHNO3_00039	09/16/16	JT Baker, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
MTTRCRIC_00022	12/01/14	09/05/14	DIWATER, Lot DIWATER	500 mL	MTTRCRI6010C_00008	25 mL	Antimony	20 ug/L
							Arsenic	15 ug/L
							Barium	200 ug/L
							Beryllium	5 ug/L
							Cadmium	5 ug/L
							Chromium	10 ug/L
							Copper	20 ug/L
							Lead	10 ug/L
							Manganese	15 ug/L
							Nickel	40 ug/L
							Silver	10 ug/L
							Zinc	50 ug/L
.MTTRCRI6010C_00008	12/01/14	Inorganic Ventures, Lot G2-MEB500140			(Purchased Reagent)		Antimony	400 ug/L
							Arsenic	300 ug/L
							Barium	4000 ug/L
							Beryllium	100 ug/L
							Cadmium	100 ug/L
							Chromium	200 ug/L
							Copper	400 ug/L
							Lead	200 ug/L
							Manganese	300 ug/L
							Nickel	800 ug/L
							Silver	200 ug/L
							Zinc	1000 ug/L
MTTRICSAW_00023	10/01/14	06/05/14	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00011	100 mL	Al	500000 ug/L
							Ca	500000 ug/L
							Fe	200000 ug/L
							Mg	500000 ug/L
.MTTRICSA_00011	10/01/14	INORGANIC VENTURES, Lot F2MEB454028			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
VM50IS_00042	09/30/14	06/24/14	MEOH, Lot 38701	50 mL	vm30241_00001	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18	restek, Lot A093261			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00161	07/11/14	07/04/14	MEOH, Lot na	2 mL	vm50ss_stk_00060	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00060	10/10/14	04/10/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00017	02/28/18		Restek, Lot A093505		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00060	10/10/14	04/10/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00017	02/28/18		Restek, Lot A093505		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00055	07/10/14	07/03/14	MEOH, Lot na	3 mL	VMACROLSTD_00014	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00014	07/31/14	06/25/14	MEOH, Lot 0000062345	20 mL	VM568720_00001	0.25 mL	Acrolein	250 ug/mL
..VM568720_00001	07/31/14		restek, Lot A0102053		(Purchased Reagent)		Acrolein	20000 ug/mL
vmCLhexstk_00013	11/17/14	05/19/14	MEOH, Lot 49909	20 mL	vmepa1208_00004	1 mL	1-Chlorohexane	50 ug/mL
.vmepa1208_00004	05/31/15		ultra scientific, Lot cj-1332		(Purchased Reagent)		1-Chlorohexane	1000 ug/mL
VMFASA9W_00019	07/10/14	07/03/14	MEOH, Lot NA	2 mL	VMFASA9_00002	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMFASA9_00002	08/31/14	04/11/14	MEOH, Lot 0000049909	100 mL	vm567647S_00001	2.5 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..vm567647S_00001	08/31/14		restek, Lot A093665		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMFASGW_00044	07/11/14	07/04/14	MEOH, Lot NA	2 mL	VMFASG_00016	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00016	07/17/14	06/17/14	MEOH, Lot 0000062345	50 mL	VM567645S_00015	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00015	08/31/15		Restek, Lot A097497		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00056	09/29/14	09/22/14	MEOH, Lot NA	2 mL	VMFASG_00019	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00019	10/04/14	09/04/14	MEOH, Lot 0000062345	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00041	07/11/14	07/04/14	MEOH, Lot NA	2 mL	VMRFASP_00008	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00008	07/31/14	06/19/14	MEOH, Lot 0000062345	100 mL	VM567641S_00005	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VM567643S_00009	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00005	1 mL	Vinyl acetate	40 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00009	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00005	07/31/14		Restek, Lot A0100444		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMFASPW_00052	09/29/14	09/22/14	MEOH, Lot NA	2 mL	VMRFASP_00010	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00010	09/29/14	08/29/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00005	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00009	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00007	1 mL	Vinyl acetate	40 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00009	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00007	10/31/14		Restek, Lot A0102474		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRA9W_00063	07/08/14	07/01/14	MEOH, Lot NA	1 mL	VMRA9_00008	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
							Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
.VMRA9_00008	08/12/14	05/12/14	MEOH, Lot +181530000049909JN	50 mL	vm567647_00004	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
					VM567648_00013	1.25 mL	Cyclohexanone	500 ug/mL
					vm567719_00020	2.5 mL	2-Methylnaphthalene	100 ug/mL
..vm567647_00004	08/31/14		restek, Lot A093634		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							2-Chloro-1,3-butadiene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitropropane	4000 ug/mL
							Acetonitrile	20000 ug/mL
							Diisopropyl ether	2000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
..VM567648_00013	12/31/15		Restek, Lot A092211		(Purchased Reagent)		Cyclohexanone	20000 ug/mL
..vm567719_00020	02/28/15		Restek, Lot A093359		(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
VMRA9W_00074	09/29/14	09/22/14	MEOH, Lot NA	1 mL	VMRA9_00010	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00010	10/29/14	07/29/14	MEOH, Lot 134079	50 mL	vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723_00001	1.25 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..vm568722_00002	06/30/15		restek, Lot A0100262		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723_00001	12/31/15		restek, Lot A099930		(Purchased Reagent)		Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRGAS_00061	07/14/14	07/07/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRGAS_00070	09/25/14	09/18/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRPRIMW_00069	07/11/14	07/04/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMRPRIMW_00082	09/25/14	09/18/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-42186-1
Project/Site: LM MRC Block E MPE System O&M

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

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 #
WSP-1-091914	240-42186-1	86	82	87	73
WSP-2-091914	240-42186-2	83	78	89	76
WSP-3-091914	240-42186-3	84	81	84	71
WSP-101-091914	240-42186-4	86	83	86	70
WSP-201-091914	240-42186-5	84	82	85	71
WSP-301-091914	240-42186-6	85	82	88	72
WSP-401-091914	240-42186-7	83	76	91	72
	MB 240-148401/32	83	81	83	73
	LCS 240-148401/4	84	74	90	77
WSP-401-091914 MS	240-42186-7 MS	84	75	87	79
WSP-401-091914 MSD	240-42186-7 MSD	84	76	87	79

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4515.D

Lab ID: LCS 240-148401/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	9.57	96	72-120	
1,1,1-Trichloroethane	10.0	9.77	98	74-120	
1,1,2,2-Tetrachloroethane	10.0	10.6	106	68-120	
1,1,2-Trichlorotrifluoroethane	10.0	11.5	115	74-151	
1,1-Dichloroethane	10.0	9.83	98	80-120	
1,1-Dichloroethene	10.0	10.2	102	78-131	
1,1-Dichloropropene	10.0	10.1	101	80-120	
1,2,3-Trichlorobenzene	10.0	8.08	81	54-126	
1,2,3-Trichloropropane	10.0	9.62	96	73-129	
1,2,4-Trichlorobenzene	10.0	9.10	91	48-135	
1,2,4-Trimethylbenzene	10.0	10.6	106	76-120	
1,2-Dibromo-3-Chloropropane	10.0	7.51	75	42-136	
1,2-Dichlorobenzene	10.0	10.4	104	80-120	
1,2-Dichloroethane	10.0	8.81	88	71-127	
1,2-Dichloropropane	10.0	10.2	102	80-120	
1,3-Dichlorobenzene	10.0	10.4	104	80-120	
1,3-Dichloropropane	10.0	9.80	98	79-120	
1,4-Dichlorobenzene	10.0	10.5	105	80-120	
2,2-Dichloropropane	10.0	8.53	85	50-129	
2-Butanone (MEK)	20.0	17.4	87	60-126	
2-Chloroethyl vinyl ether	12.0	10.2	85	52-131	
2-Chlorotoluene	10.0	11.0	110	76-120	
2-Hexanone	20.0	14.5	73	55-133	
4-Chlorotoluene	10.0	10.1	101	77-120	
4-Isopropyltoluene	10.0	11.1	111	74-120	
4-Methyl-2-pentanone (MIBK)	20.0	14.2	71	63-128	
Acetone	20.0	14.7	74	43-136	
Benzene	10.0	9.95	99	80-120	
Bromobenzene	10.0	10.4	104	76-120	
Bromoform	10.0	7.34	73	40-131	
Bromomethane	10.0	15.2	152	11-185	
Carbon disulfide	10.0	10.8	108	62-142	
Carbon tetrachloride	10.0	9.48	95	66-128	
Chlorobenzene	10.0	10.5	105	80-120	
Chlorodibromomethane	10.0	8.65	86	64-120	
Chloroethane	10.0	12.2	122	25-153	
Chloroform	10.0	9.53	95	79-120	
Chloromethane	10.0	11.3	113	44-126	
cis-1,2-Dichloroethene	10.0	10.1	101	80-120	
cis-1,3-Dichloropropene	10.0	9.05	90	61-120	
Dibromomethane	10.0	9.81	98	80-120	
Bromochloromethane	10.0	10.0	100	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4515.D

Lab ID: LCS 240-148401/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	9.78	98	19-129	
Bromodichloromethane	10.0	9.28	93	72-121	
tert-Butyl alcohol	100	54.4	54	70-130	*
Ethylbenzene	10.0	10.6	106	80-120	
Hexachlorobutadiene	10.0	9.17	92	36-134	
Isopropylbenzene	10.0	10.5	105	75-120	
Methyl tert-butyl ether	10.0	7.49	75	52-144	
Methylene Chloride	10.0	11.3	113	66-131	
m-Xylene & p-Xylene	10.0	10.1	101	80-120	
Naphthalene	10.0	7.11	71	32-141	
n-Butylbenzene	10.0	10.7	107	66-125	
N-Propylbenzene	10.0	11.2	112	74-121	
o-Xylene	10.0	10.6	106	80-120	
sec-Butylbenzene	10.0	11.3	113	70-120	
Styrene	10.0	10.3	103	79-120	
Tetrachloroethene	10.0	10.9	109	79-120	
Toluene	10.0	10.8	108	80-120	
trans-1,2-Dichloroethene	10.0	10.5	105	80-120	
trans-1,3-Dichloropropene	10.0	8.50	85	58-120	
Trichloroethene	10.0	9.96	100	76-120	
Trichlorofluoromethane	10.0	18.2	182	49-157	*
Vinyl acetate	8.00	4.74	59	46-161	
Vinyl chloride	10.0	10.7	107	53-127	
Xylenes, Total	20.0	20.7	104	80-120	
tert-Butylbenzene	10.0	11.1	111	71-120	
1,2-Dibromoethane	10.0	9.43	94	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4541.D

Lab ID: 240-42186-7 MS Client ID: WSP-401-091914 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	33300	930 U	10500	31	64-120	F1
1,1,1-Trichloroethane	33300	730 U	12300	37	68-121	F1
1,1,2,2-Tetrachloroethane	33300	730 U	15200	46	63-122	F1
1,1,2-Trichlorotrifluoroethane	33300	1200 U	17200	52	70-152	F1
1,1-Dichloroethane	33300	870 U	14200	43	79-120	F1
1,1-Dichloroethene	33300	1500 U	14900	45	74-135	F1
1,1-Dichloropropene	33300	730 U	14600	44	80-120	F1
1,2,3-Trichlorobenzene	33300	1200 U	13400	40	45-129	F1
1,2,3-Trichloropropane	33300	1000 U	13500	41	67-132	F1
1,2,4-Trichlorobenzene	33300	1100 U	14600	44	38-138	
1,2,4-Trimethylbenzene	33300	1400 U	14700	44	67-124	F1
1,2-Dibromo-3-Chloropropane	33300	2700 U	9080	27	32-139	F1
1,2-Dichlorobenzene	33300	570 U	15700	47	75-120	F1
1,2-Dichloroethane	33300	670 U	13300	40	68-129	F1
1,2-Dichloropropane	33300	730 U	14500	44	78-120	F1
1,3-Dichlorobenzene	33300	570 U	15700	47	73-120	F1
1,3-Dichloropropane	33300	600 U	13900	42	74-120	F1
1,4-Dichlorobenzene	33300	530 U	15200	45	75-120	F1
2,2-Dichloropropane	33300	870 U	10400	31	38-127	F1
2-Butanone (MEK)	66700	14000 U	27600 J	41	54-129	F1
2-Chloroethyl vinyl ether	40000	3900 U	14600 J	37	10-150	
2-Chlorotoluene	33300	670 U	16100	48	69-120	F1
2-Hexanone	66700	13000 U	18900 J	28	47-139	F1
4-Chlorotoluene	33300	730 U	14400	43	71-120	F1
4-Isopropyltoluene	33300	1400 U	15300	46	64-122	F1
4-Methyl-2-pentanone (MIBK)	66700	12000 U	20800 J	31	56-131	F1
Acetone	66700	11000 U	19800 J	30	33-145	F1
Benzene	33300	800 U	14200	43	72-121	F1
Bromobenzene	33300	400 U	15500	47	71-120	F1
Bromoform	33300	1900 U	9180	28	32-128	F1
Bromomethane	33300	2100 U	28900	87	10-186	
Carbon disulfide	33300	930 U	17000	51	57-147	F1
Carbon tetrachloride	33300	570 U	11000	33	59-129	F1
Chlorobenzene	33300	630 U	15000	45	80-120	F1
Chlorodibromomethane	33300	1400 U	10700	32	56-120	F1
Chloroethane	33300	1100 U	23900	72	21-165	
Chloroform	33300	700 U	13300	40	76-120	F1
Chloromethane	33300	1500 U	22000	66	33-132	
cis-1,2-Dichloroethene	33300	670 U	14100	42	70-120	F1
cis-1,3-Dichloropropene	33300	1500 U	9530	29	51-120	F1
Dibromomethane	33300	570 U	14800	44	77-121	F1
Bromochloromethane	33300	830 U	14800	44	73-121	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4541.D

Lab ID: 240-42186-7 MS Client ID: WSP-401-091914 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	33300	1700 U	17700	53	17-128	
Bromodichloromethane	33300	500 U	11700	35	67-120	F1
tert-Butyl alcohol	333000	29000 U	114000 J	34	70-130	F1
Ethylbenzene	33300	770 U	14500	43	75-120	F1
Hexachlorobutadiene	33300	1200 U	13400	40	27-132	
Isopropylbenzene	33300	1200 U	14300	43	68-120	F1
Methyl tert-butyl ether	33300	530 U	10800	32	46-144	F1
Methylene Chloride	33300	930 U	16900	51	63-128	F1
m-Xylene & p-Xylene	33300	730 U	14000	42	75-120	F1
Naphthalene	33300	1500 U	11100	33	15-158	
n-Butylbenzene	33300	730 U	15000	45	56-127	F1
N-Propylbenzene	33300	1300 U	15200	46	64-124	F1
o-Xylene	33300	700 U	14600	44	76-120	F1
sec-Butylbenzene	33300	1600 U	15900	48	60-120	F1
Styrene	33300	1500 U	14000	42	71-120	F1
Tetrachloroethene	33300	670 U	15300	46	70-120	F1
Toluene	33300	730 U	15000	45	78-120	F1
trans-1,2-Dichloroethene	33300	870 U	15200	46	80-120	F1
trans-1,3-Dichloropropene	33300	1900 U	7980	24	46-120	F1
Trichloroethene	33300	83000	96700	40	66-120	F1
Trichlorofluoromethane	33300	1600 U	35100	105	46-157	
Vinyl acetate	26700	1400 U	6970	26	43-157	F1
Vinyl chloride	33300	970 U	21400	64	49-130	
Xylenes, Total	66700	1400 U	28600	43	76-120	F1
tert-Butylbenzene	33300	1400 U	15000	45	61-120	F1
1,2-Dibromoethane	33300	630 U	13300	40	74-120	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4542.D

Lab ID: 240-42186-7 MSD Client ID: WSP-401-091914 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	33300	18200	55	54	30	64-120	F1 F2
1,1,1-Trichloroethane	33300	21400	64	54	30	68-121	F1 F2
1,1,2,2-Tetrachloroethane	33300	23700	71	44	30	63-122	F2
1,1,2-Trichlorotrifluoroethane	33300	27000	81	44	30	70-152	F2
1,1-Dichloroethane	33300	23000	69	48	30	79-120	F1 F2
1,1-Dichloroethene	33300	24400	73	48	30	74-135	F1 F2
1,1-Dichloropropene	33300	23600	71	47	30	80-120	F1 F2
1,2,3-Trichlorobenzene	33300	23700	71	55	30	45-129	F2
1,2,3-Trichloropropane	33300	21700	65	46	30	67-132	F1 F2
1,2,4-Trichlorobenzene	33300	24300	73	50	30	38-138	F2
1,2,4-Trimethylbenzene	33300	24400	73	50	30	67-124	F2
1,2-Dibromo-3-Chloropropane	33300	15000	45	49	30	32-139	F2
1,2-Dichlorobenzene	33300	25300	76	46	30	75-120	F2
1,2-Dichloroethane	33300	21000	63	45	30	68-129	F1 F2
1,2-Dichloropropane	33300	23900	72	49	30	78-120	F1 F2
1,3-Dichlorobenzene	33300	24000	72	42	30	73-120	F1 F2
1,3-Dichloropropane	33300	22500	67	47	30	74-120	F1 F2
1,4-Dichlorobenzene	33300	23900	72	45	30	75-120	F1 F2
2,2-Dichloropropane	33300	17700	53	52	30	38-127	F2
2-Butanone (MEK)	66700	43400	65	44	30	54-129	F2
2-Chloroethyl vinyl ether	40000	24200 J	61	50	30	10-150	F2
2-Chlorotoluene	33300	25300	76	45	30	69-120	F2
2-Hexanone	66700	32200 J	48	52	30	47-139	F2
4-Chlorotoluene	33300	23000	69	46	30	71-120	F1 F2
4-Isopropyltoluene	33300	25600	77	51	30	64-122	F2
4-Methyl-2-pentanone (MIBK)	66700	35500	53	52	30	56-131	F1 F2
Acetone	66700	39500	59	66	30	33-145	F2
Benzene	33300	23400	70	49	30	72-121	F1 F2
Bromobenzene	33300	24200	73	44	30	71-120	F2
Bromoform	33300	14200	43	43	30	32-128	F2
Bromomethane	33300	44000	132	42	30	10-186	F2
Carbon disulfide	33300	27000	81	46	30	57-147	F2
Carbon tetrachloride	33300	19200	58	54	30	59-129	F1 F2
Chlorobenzene	33300	24100	72	47	30	80-120	F1 F2
Chlorodibromomethane	33300	17200	52	47	30	56-120	F1 F2
Chloroethane	33300	36500	109	42	30	21-165	F2
Chloroform	33300	22700	68	52	30	76-120	F1 F2
Chloromethane	33300	33200	100	41	30	33-132	F2
cis-1,2-Dichloroethene	33300	23500	70	50	30	70-120	F2
cis-1,3-Dichloropropene	33300	16800	51	56	30	51-120	F2
Dibromomethane	33300	24000	72	48	30	77-121	F1 F2
Bromochloromethane	33300	23300	70	45	30	73-121	F1 F2

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4542.D

Lab ID: 240-42186-7 MSD Client ID: WSP-401-091914 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Dichlorodifluoromethane	33300	28200	85	46	30	17-128	F2
Bromodichloromethane	33300	20300	61	53	30	67-120	F1 F2
tert-Butyl alcohol	333000	198000	59	54	30	70-130	F1 F2
Ethylbenzene	33300	23800	71	48	30	75-120	F1 F2
Hexachlorobutadiene	33300	24100	72	57	30	27-132	F2
Isopropylbenzene	33300	23800	71	50	30	68-120	F2
Methyl tert-butyl ether	33300	17700	53	48	30	46-144	F2
Methylene Chloride	33300	28700	86	52	30	63-128	F2
m-Xylene & p-Xylene	33300	22700	68	47	30	75-120	F1 F2
Naphthalene	33300	20500	62	60	30	15-158	F2
n-Butylbenzene	33300	24700	74	49	30	56-127	F2
N-Propylbenzene	33300	25000	75	49	30	64-124	F2
o-Xylene	33300	24300	73	50	30	76-120	F1 F2
sec-Butylbenzene	33300	26100	78	49	30	60-120	F2
Styrene	33300	23000	69	48	30	71-120	F1 F2
Tetrachloroethene	33300	25400	76	50	30	70-120	F2
Toluene	33300	24400	73	48	30	78-120	F1 F2
trans-1,2-Dichloroethene	33300	25400	76	50	30	80-120	F1 F2
trans-1,3-Dichloropropene	33300	14700	44	59	30	46-120	F1 F2
Trichloroethene	33300	101000	52	4	30	66-120	F1
Trichlorofluoromethane	33300	54500	163	43	30	46-157	F1 F2
Vinyl acetate	26700	10100	38	37	30	43-157	F1 F2
Vinyl chloride	33300	32200	97	40	30	49-130	F2
Xylenes, Total	66700	47000	71	49	30	76-120	F1 F2
tert-Butylbenzene	33300	24600	74	49	30	61-120	F2
1,2-Dibromoethane	33300	21400	64	47	30	74-120	F1 F2

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab File ID: UXC4520.D Lab Sample ID: MB 240-148401/32

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 09/24/2014 12:16

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 240-148401/4	UXC4515.D	09/24/2014 10:22
WSP-1-091914	240-42186-1	UXC4522.D	09/24/2014 13:07
WSP-101-091914	240-42186-4	UXC4526.D	09/24/2014 14:38
WSP-201-091914	240-42186-5	UXC4527.D	09/24/2014 15:01
WSP-301-091914	240-42186-6	UXC4528.D	09/24/2014 15:23
WSP-3-091914	240-42186-3	UXC4529.D	09/24/2014 15:45
WSP-401-091914 MS	240-42186-7 MS	UXC4541.D	09/24/2014 20:12
WSP-401-091914 MSD	240-42186-7 MSD	UXC4542.D	09/24/2014 20:34
WSP-401-091914	240-42186-7	UXC4543.D	09/24/2014 20:57
WSP-2-091914	240-42186-2	UXC4544.D	09/24/2014 21:19

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab File ID: BFB440.D BFB Injection Date: 07/07/2014

Instrument ID: A3UX15 BFB Injection Time: 13:01

Analysis Batch No.: 137439

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	19.5	
75	30.0 - 60.0 % of mass 95	52.3	
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	0.3	(0.4)1
174	50.0 - 120.00 % of mass 95	75.0	
175	5.0 - 9.0 % of mass 174	5.2	(7.0)1
176	95.0 - 101.0 % of mass 174	72.9	(97.3)1
177	5.0 - 9.0 % of mass 176	4.8	(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
	STD8260 240-137439/2	UXC2883.D	07/07/2014	13:51
	STD8260 240-137439/3	UXC2884.D	07/07/2014	14:13
	STD8260 240-137439/4	UXC2885.D	07/07/2014	14:35
	STD8260 240-137439/5	UXC2886.D	07/07/2014	14:58
	STD8260 240-137439/6	UXC2887.D	07/07/2014	15:20
	STD8260 240-137439/7	UXC2888.D	07/07/2014	15:42
	STD 240-137439/8	UXC2889.D	07/07/2014	16:04
	STD 240-137439/9	UXC2890.D	07/07/2014	16:27
	STD 240-137439/10	UXC2891.D	07/07/2014	16:49
	STD 240-137439/11	UXC2892.D	07/07/2014	17:12
	STD 240-137439/12	UXC2893.D	07/07/2014	17:35
	STD 240-137439/13	UXC2894.D	07/07/2014	17:57
	ICV 240-137439/14	UXC2895.D	07/07/2014	18:20
	ICV 240-137439/15	UXC2896.D	07/07/2014	18:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab File ID: BFB490.D BFB Injection Date: 09/24/2014

Instrument ID: A3UX15 BFB Injection Time: 09:27

Analysis Batch No.: 148401

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.8	
75	30.0 - 60.0 % of mass 95	49.6	
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	0.2	(0.3)1
174	50.0 - 120.00 % of mass 95	83.2	
175	5.0 - 9.0 % of mass 174	6.3	(7.6)1
176	95.0 - 101.0 % of mass 174	82.5	(99.2)1
177	5.0 - 9.0 % of mass 176	5.2	(6.3)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 240-148401/2	UXC4514.D	09/24/2014	09:59
	LCS 240-148401/4	UXC4515.D	09/24/2014	10:22
	CCV 240-148401/3	UXC4516.D	09/24/2014	10:45
	MB 240-148401/32	UXC4520.D	09/24/2014	12:16
WSP-1-091914	240-42186-1	UXC4522.D	09/24/2014	13:07
WSP-101-091914	240-42186-4	UXC4526.D	09/24/2014	14:38
WSP-201-091914	240-42186-5	UXC4527.D	09/24/2014	15:01
WSP-301-091914	240-42186-6	UXC4528.D	09/24/2014	15:23
WSP-3-091914	240-42186-3	UXC4529.D	09/24/2014	15:45
WSP-401-091914 MS	240-42186-7 MS	UXC4541.D	09/24/2014	20:12
WSP-401-091914 MSD	240-42186-7 MSD	UXC4542.D	09/24/2014	20:34
WSP-401-091914	240-42186-7	UXC4543.D	09/24/2014	20:57
WSP-2-091914	240-42186-2	UXC4544.D	09/24/2014	21:19

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Sample No.: STD8260 240-137439/4 Date Analyzed: 07/07/2014 14:35

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC2885.D Heated Purge: (Y/N) N

Calibration ID: 23134

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1319837	5.21	875691	7.89	505584	10.12
UPPER LIMIT		2639674	5.71	1751382	8.39	1011168	10.62
LOWER LIMIT		659919	4.71	437846	7.39	252792	9.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-137439/14		1219577	5.21	812487	7.89	470735	10.12
ICV 240-137439/15		1151715	5.21	786491	7.89	449414	10.12
CCVIS 240-148401/2		1374089	5.21	925214	7.89	554236	10.12

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 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Sample No.: CCVIS 240-148401/2 Date Analyzed: 09/24/2014 09:59

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC4514.D Heated Purge: (Y/N) N

Calibration ID: 23297

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1374089	5.21	925214	7.89	554236	10.12
UPPER LIMIT		2748178	5.71	1850428	8.39	1108472	10.62
LOWER LIMIT		687045	4.71	462607	7.39	277118	9.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-148401/4		1351228	5.21	885487	7.89	490089	10.12
CCV 240-148401/3		1300010	5.21	947241	7.89	490732	10.12
MB 240-148401/32		1208351	5.21	861773	7.89	463463	10.12
240-42186-1	WSP-1-091914	1197342	5.21	816640	7.89	418481	10.12
240-42186-4	WSP-101-091914	1194692	5.21	813248	7.89	417926	10.12
240-42186-5	WSP-201-091914	1179296	5.21	796480	7.89	428787	10.12
240-42186-6	WSP-301-091914	1159446	5.21	757501	7.89	410523	10.12
240-42186-3	WSP-3-091914	1141480	5.21	771762	7.89	387552	10.12
240-42186-7 MS	WSP-401-091914 MS	1309276	5.21	904771	7.89	510736	10.12
240-42186-7 MSD	WSP-401-091914 MSD	1311488	5.21	903890	7.89	520904	10.12
240-42186-7	WSP-401-091914	1248988	5.21	778703	7.89	431082	10.12
240-42186-2	WSP-2-091914	1235673	5.21	786167	7.89	448960	10.12

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-1-091914 | Lab Sample ID: 240-42186-1

Matrix: Water | Lab File ID: UXC4522.D

Analysis Method: 8260C | Date Collected: 09/19/2014 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 13:07

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	930	U	3300	930
71-55-6	1,1,1-Trichloroethane	730	U	3300	730
79-34-5	1,1,2,2-Tetrachloroethane	730	U	3300	730
76-13-1	1,1,2-Trichlorotrifluoroethane	1200	U	3300	1200
75-34-3	1,1-Dichloroethane	870	U	3300	870
75-35-4	1,1-Dichloroethene	1500	U	3300	1500
563-58-6	1,1-Dichloropropene	730	U	3300	730
87-61-6	1,2,3-Trichlorobenzene	1200	U	3300	1200
96-18-4	1,2,3-Trichloropropane	1000	U	3300	1000
526-73-8	1,2,3-Trimethylbenzene	1600	U	17000	1600
120-82-1	1,2,4-Trichlorobenzene	1100	U	3300	1100
95-63-6	1,2,4-Trimethylbenzene	1400	U	3300	1400
96-12-8	1,2-Dibromo-3-Chloropropane	2700	U	6700	2700
95-50-1	1,2-Dichlorobenzene	570	U	3300	570
107-06-2	1,2-Dichloroethane	670	U	3300	670
78-87-5	1,2-Dichloropropane	730	U	3300	730
541-73-1	1,3-Dichlorobenzene	570	U	3300	570
142-28-9	1,3-Dichloropropane	600	U	3300	600
106-46-7	1,4-Dichlorobenzene	530	U	3300	530
594-20-7	2,2-Dichloropropane	870	U	3300	870
78-93-3	2-Butanone (MEK)	14000	U	33000	14000
110-75-8	2-Chloroethyl vinyl ether	3900	U	33000	3900
95-49-8	2-Chlorotoluene	670	U	3300	670
591-78-6	2-Hexanone	13000	U	33000	13000
106-43-4	4-Chlorotoluene	730	U	3300	730
99-87-6	4-Isopropyltoluene	1400	U	3300	1400
108-10-1	4-Methyl-2-pentanone (MIBK)	12000	U	33000	12000
67-64-1	Acetone	11000	U	33000	11000
71-43-2	Benzene	800	U	3300	800
108-86-1	Bromobenzene	400	U	3300	400
75-25-2	Bromoform	1900	U	3300	1900
74-83-9	Bromomethane	2100	U	3300	2100
75-15-0	Carbon disulfide	930	U	3300	930
56-23-5	Carbon tetrachloride	570	U	3300	570
108-90-7	Chlorobenzene	630	U	3300	630
124-48-1	Chlorodibromomethane	1400	U	3300	1400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-1-091914 | Lab Sample ID: 240-42186-1

Matrix: Water | Lab File ID: UXC4522.D

Analysis Method: 8260C | Date Collected: 09/19/2014 11:40

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 13:07

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	1100	U	3300	1100
67-66-3	Chloroform	700	U	3300	700
74-87-3	Chloromethane	1500	U	3300	1500
156-59-2	cis-1,2-Dichloroethene	670	U	3300	670
10061-01-5	cis-1,3-Dichloropropene	1500	U	3300	1500
74-95-3	Dibromomethane	570	U	3300	570
74-97-5	Bromochloromethane	830	U	3300	830
75-71-8	Dichlorodifluoromethane	1700	U	3300	1700
75-27-4	Bromodichloromethane	500	U	3300	500
75-65-0	tert-Butyl alcohol	29000	U *	170000	29000
100-41-4	Ethylbenzene	770	U	3300	770
87-68-3	Hexachlorobutadiene	1200	U	3300	1200
108-20-3	Diisopropyl ether	630	U	33000	630
98-82-8	Isopropylbenzene	1200	U	3300	1200
1634-04-4	Methyl tert-butyl ether	530	U	3300	530
75-09-2	Methylene Chloride	930	U	3300	930
179601-23-1	m-Xylene & p-Xylene	730	U	6700	730
91-20-3	Naphthalene	1500	U	3300	1500
104-51-8	n-Butylbenzene	730	U	3300	730
103-65-1	N-Propylbenzene	1300	U	3300	1300
95-47-6	o-Xylene	700	U	3300	700
135-98-8	sec-Butylbenzene	1600	U	3300	1600
100-42-5	Styrene	1500	U	3300	1500
994-05-8	Tert-amyl methyl ether	530	U	17000	530
637-92-3	Ethyl tert-butyl ether	670	U	17000	670
127-18-4	Tetrachloroethene	670	U	3300	670
108-88-3	Toluene	730	U	3300	730
156-60-5	trans-1,2-Dichloroethene	870	U	3300	870
10061-02-6	trans-1,3-Dichloropropene	1900	U	3300	1900
79-01-6	Trichloroethene	48000		3300	500
75-69-4	Trichlorofluoromethane	1600	U *	3300	1600
108-05-4	Vinyl acetate	1400	U	6700	1400
75-01-4	Vinyl chloride	970	U	3300	970
1330-20-7	Xylenes, Total	1400	U	6700	1400
98-06-6	tert-Butylbenzene	1400	U	3300	1400
106-93-4	1,2-Dibromoethane	630	U	3300	630

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-1-091914 Lab Sample ID: 240-42186-1

Matrix: Water Lab File ID: UXC4522.D

Analysis Method: 8260C Date Collected: 09/19/2014 11:40

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 13:07

Soil Aliquot Vol: Dilution Factor: 3333.33

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 148401 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		74-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-121
460-00-4	4-Bromofluorobenzene (Surr)	73		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-2-091914 | Lab Sample ID: 240-42186-2

Matrix: Water | Lab File ID: UXC4544.D

Analysis Method: 8260C | Date Collected: 09/19/2014 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 21:19

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.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	4.5	J	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-2-091914 | Lab Sample ID: 240-42186-2

Matrix: Water | Lab File ID: UXC4544.D

Analysis Method: 8260C | Date Collected: 09/19/2014 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 21:19

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.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U *	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U *	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-2-091914 Lab Sample ID: 240-42186-2

Matrix: Water Lab File ID: UXC4544.D

Analysis Method: 8260C Date Collected: 09/19/2014 11:45

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 21:19

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.: 148401 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		74-120
1868-53-7	Dibromofluoromethane (Surr)	83		75-121
460-00-4	4-Bromofluorobenzene (Surr)	76		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-3-091914 | Lab Sample ID: 240-42186-3

Matrix: Water | Lab File ID: UXC4529.D

Analysis Method: 8260C | Date Collected: 09/19/2014 11:50

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 15:45

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.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-3-091914 | Lab Sample ID: 240-42186-3

Matrix: Water | Lab File ID: UXC4529.D

Analysis Method: 8260C | Date Collected: 09/19/2014 11:50

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 15:45

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.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U *	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U *	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-3-091914 Lab Sample ID: 240-42186-3

Matrix: Water Lab File ID: UXC4529.D

Analysis Method: 8260C Date Collected: 09/19/2014 11:50

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 15:45

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.: 148401 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		74-120
1868-53-7	Dibromofluoromethane (Surr)	84		75-121
460-00-4	4-Bromofluorobenzene (Surr)	71		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-101-091914 | Lab Sample ID: 240-42186-4

Matrix: Water | Lab File ID: UXC4526.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 14:38

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	930	U	3300	930
71-55-6	1,1,1-Trichloroethane	730	U	3300	730
79-34-5	1,1,2,2-Tetrachloroethane	730	U	3300	730
76-13-1	1,1,2-Trichlorotrifluoroethane	1200	U	3300	1200
75-34-3	1,1-Dichloroethane	870	U	3300	870
75-35-4	1,1-Dichloroethene	1500	U	3300	1500
563-58-6	1,1-Dichloropropene	730	U	3300	730
87-61-6	1,2,3-Trichlorobenzene	1200	U	3300	1200
96-18-4	1,2,3-Trichloropropane	1000	U	3300	1000
526-73-8	1,2,3-Trimethylbenzene	1600	U	17000	1600
120-82-1	1,2,4-Trichlorobenzene	1100	U	3300	1100
95-63-6	1,2,4-Trimethylbenzene	1400	U	3300	1400
96-12-8	1,2-Dibromo-3-Chloropropane	2700	U	6700	2700
95-50-1	1,2-Dichlorobenzene	570	U	3300	570
107-06-2	1,2-Dichloroethane	670	U	3300	670
78-87-5	1,2-Dichloropropane	730	U	3300	730
541-73-1	1,3-Dichlorobenzene	570	U	3300	570
142-28-9	1,3-Dichloropropane	600	U	3300	600
106-46-7	1,4-Dichlorobenzene	530	U	3300	530
594-20-7	2,2-Dichloropropane	870	U	3300	870
78-93-3	2-Butanone (MEK)	14000	U	33000	14000
110-75-8	2-Chloroethyl vinyl ether	3900	U	33000	3900
95-49-8	2-Chlorotoluene	670	U	3300	670
591-78-6	2-Hexanone	13000	U	33000	13000
106-43-4	4-Chlorotoluene	730	U	3300	730
99-87-6	4-Isopropyltoluene	1400	U	3300	1400
108-10-1	4-Methyl-2-pentanone (MIBK)	12000	U	33000	12000
67-64-1	Acetone	11000	U	33000	11000
71-43-2	Benzene	800	U	3300	800
108-86-1	Bromobenzene	400	U	3300	400
75-25-2	Bromoform	1900	U	3300	1900
74-83-9	Bromomethane	2100	U	3300	2100
75-15-0	Carbon disulfide	930	U	3300	930
56-23-5	Carbon tetrachloride	570	U	3300	570
108-90-7	Chlorobenzene	630	U	3300	630
124-48-1	Chlorodibromomethane	1400	U	3300	1400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-101-091914 | Lab Sample ID: 240-42186-4

Matrix: Water | Lab File ID: UXC4526.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 14:38

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	1100	U	3300	1100
67-66-3	Chloroform	700	U	3300	700
74-87-3	Chloromethane	1500	U	3300	1500
156-59-2	cis-1,2-Dichloroethene	670	U	3300	670
10061-01-5	cis-1,3-Dichloropropene	1500	U	3300	1500
74-95-3	Dibromomethane	570	U	3300	570
74-97-5	Bromochloromethane	830	U	3300	830
75-71-8	Dichlorodifluoromethane	1700	U	3300	1700
75-27-4	Bromodichloromethane	500	U	3300	500
75-65-0	tert-Butyl alcohol	29000	U *	170000	29000
100-41-4	Ethylbenzene	770	U	3300	770
87-68-3	Hexachlorobutadiene	1200	U	3300	1200
108-20-3	Diisopropyl ether	630	U	33000	630
98-82-8	Isopropylbenzene	1200	U	3300	1200
1634-04-4	Methyl tert-butyl ether	530	U	3300	530
75-09-2	Methylene Chloride	930	U	3300	930
179601-23-1	m-Xylene & p-Xylene	730	U	6700	730
91-20-3	Naphthalene	1500	U	3300	1500
104-51-8	n-Butylbenzene	730	U	3300	730
103-65-1	N-Propylbenzene	1300	U	3300	1300
95-47-6	o-Xylene	700	U	3300	700
135-98-8	sec-Butylbenzene	1600	U	3300	1600
100-42-5	Styrene	1500	U	3300	1500
994-05-8	Tert-amyl methyl ether	530	U	17000	530
637-92-3	Ethyl tert-butyl ether	670	U	17000	670
127-18-4	Tetrachloroethene	670	U	3300	670
108-88-3	Toluene	730	U	3300	730
156-60-5	trans-1,2-Dichloroethene	870	U	3300	870
10061-02-6	trans-1,3-Dichloropropene	1900	U	3300	1900
79-01-6	Trichloroethene	29000		3300	500
75-69-4	Trichlorofluoromethane	1600	U *	3300	1600
108-05-4	Vinyl acetate	1400	U	6700	1400
75-01-4	Vinyl chloride	970	U	3300	970
1330-20-7	Xylenes, Total	1400	U	6700	1400
98-06-6	tert-Butylbenzene	1400	U	3300	1400
106-93-4	1,2-Dibromoethane	630	U	3300	630

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-101-091914 Lab Sample ID: 240-42186-4

Matrix: Water Lab File ID: UXC4526.D

Analysis Method: 8260C Date Collected: 09/19/2014 12:00

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 14:38

Soil Aliquot Vol: Dilution Factor: 3333.33

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 148401 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	86		74-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-121
460-00-4	4-Bromofluorobenzene (Surr)	70		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-201-091914 | Lab Sample ID: 240-42186-5

Matrix: Water | Lab File ID: UXC4527.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:05

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 15:01

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	930	U	3300	930
71-55-6	1,1,1-Trichloroethane	730	U	3300	730
79-34-5	1,1,2,2-Tetrachloroethane	730	U	3300	730
76-13-1	1,1,2-Trichlorotrifluoroethane	1200	U	3300	1200
75-34-3	1,1-Dichloroethane	870	U	3300	870
75-35-4	1,1-Dichloroethene	1500	U	3300	1500
563-58-6	1,1-Dichloropropene	730	U	3300	730
87-61-6	1,2,3-Trichlorobenzene	1200	U	3300	1200
96-18-4	1,2,3-Trichloropropane	1000	U	3300	1000
526-73-8	1,2,3-Trimethylbenzene	1600	U	17000	1600
120-82-1	1,2,4-Trichlorobenzene	1100	U	3300	1100
95-63-6	1,2,4-Trimethylbenzene	1400	U	3300	1400
96-12-8	1,2-Dibromo-3-Chloropropane	2700	U	6700	2700
95-50-1	1,2-Dichlorobenzene	570	U	3300	570
107-06-2	1,2-Dichloroethane	670	U	3300	670
78-87-5	1,2-Dichloropropane	730	U	3300	730
541-73-1	1,3-Dichlorobenzene	570	U	3300	570
142-28-9	1,3-Dichloropropane	600	U	3300	600
106-46-7	1,4-Dichlorobenzene	530	U	3300	530
594-20-7	2,2-Dichloropropane	870	U	3300	870
78-93-3	2-Butanone (MEK)	14000	U	33000	14000
110-75-8	2-Chloroethyl vinyl ether	3900	U	33000	3900
95-49-8	2-Chlorotoluene	670	U	3300	670
591-78-6	2-Hexanone	13000	U	33000	13000
106-43-4	4-Chlorotoluene	730	U	3300	730
99-87-6	4-Isopropyltoluene	1400	U	3300	1400
108-10-1	4-Methyl-2-pentanone (MIBK)	12000	U	33000	12000
67-64-1	Acetone	11000	U	33000	11000
71-43-2	Benzene	800	U	3300	800
108-86-1	Bromobenzene	400	U	3300	400
75-25-2	Bromoform	1900	U	3300	1900
74-83-9	Bromomethane	2100	U	3300	2100
75-15-0	Carbon disulfide	930	U	3300	930
56-23-5	Carbon tetrachloride	570	U	3300	570
108-90-7	Chlorobenzene	630	U	3300	630
124-48-1	Chlorodibromomethane	1400	U	3300	1400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-201-091914 | Lab Sample ID: 240-42186-5

Matrix: Water | Lab File ID: UXC4527.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:05

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 15:01

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	1100	U	3300	1100
67-66-3	Chloroform	700	U	3300	700
74-87-3	Chloromethane	1500	U	3300	1500
156-59-2	cis-1,2-Dichloroethene	670	U	3300	670
10061-01-5	cis-1,3-Dichloropropene	1500	U	3300	1500
74-95-3	Dibromomethane	570	U	3300	570
74-97-5	Bromochloromethane	830	U	3300	830
75-71-8	Dichlorodifluoromethane	1700	U	3300	1700
75-27-4	Bromodichloromethane	500	U	3300	500
75-65-0	tert-Butyl alcohol	29000	U *	170000	29000
100-41-4	Ethylbenzene	770	U	3300	770
87-68-3	Hexachlorobutadiene	1200	U	3300	1200
108-20-3	Diisopropyl ether	630	U	33000	630
98-82-8	Isopropylbenzene	1200	U	3300	1200
1634-04-4	Methyl tert-butyl ether	530	U	3300	530
75-09-2	Methylene Chloride	1100	J	3300	930
179601-23-1	m-Xylene & p-Xylene	730	U	6700	730
91-20-3	Naphthalene	1500	U	3300	1500
104-51-8	n-Butylbenzene	730	U	3300	730
103-65-1	N-Propylbenzene	1300	U	3300	1300
95-47-6	o-Xylene	700	U	3300	700
135-98-8	sec-Butylbenzene	1600	U	3300	1600
100-42-5	Styrene	1500	U	3300	1500
994-05-8	Tert-amyl methyl ether	530	U	17000	530
637-92-3	Ethyl tert-butyl ether	670	U	17000	670
127-18-4	Tetrachloroethene	670	U	3300	670
108-88-3	Toluene	730	U	3300	730
156-60-5	trans-1,2-Dichloroethene	870	U	3300	870
10061-02-6	trans-1,3-Dichloropropene	1900	U	3300	1900
79-01-6	Trichloroethene	44000		3300	500
75-69-4	Trichlorofluoromethane	1600	U *	3300	1600
108-05-4	Vinyl acetate	1400	U	6700	1400
75-01-4	Vinyl chloride	970	U	3300	970
1330-20-7	Xylenes, Total	1400	U	6700	1400
98-06-6	tert-Butylbenzene	1400	U	3300	1400
106-93-4	1,2-Dibromoethane	630	U	3300	630

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-201-091914 Lab Sample ID: 240-42186-5

Matrix: Water Lab File ID: UXC4527.D

Analysis Method: 8260C Date Collected: 09/19/2014 12:05

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 15:01

Soil Aliquot Vol: Dilution Factor: 3333.33

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 148401 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	85		74-120
1868-53-7	Dibromofluoromethane (Surr)	84		75-121
460-00-4	4-Bromofluorobenzene (Surr)	71		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-301-091914 | Lab Sample ID: 240-42186-6

Matrix: Water | Lab File ID: UXC4528.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 15:23

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	930	U	3300	930
71-55-6	1,1,1-Trichloroethane	730	U	3300	730
79-34-5	1,1,2,2-Tetrachloroethane	730	U	3300	730
76-13-1	1,1,2-Trichlorotrifluoroethane	1200	U	3300	1200
75-34-3	1,1-Dichloroethane	870	U	3300	870
75-35-4	1,1-Dichloroethene	1500	U	3300	1500
563-58-6	1,1-Dichloropropene	730	U	3300	730
87-61-6	1,2,3-Trichlorobenzene	1200	U	3300	1200
96-18-4	1,2,3-Trichloropropane	1000	U	3300	1000
526-73-8	1,2,3-Trimethylbenzene	1600	U	17000	1600
120-82-1	1,2,4-Trichlorobenzene	1100	U	3300	1100
95-63-6	1,2,4-Trimethylbenzene	1400	U	3300	1400
96-12-8	1,2-Dibromo-3-Chloropropane	2700	U	6700	2700
95-50-1	1,2-Dichlorobenzene	570	U	3300	570
107-06-2	1,2-Dichloroethane	670	U	3300	670
78-87-5	1,2-Dichloropropane	730	U	3300	730
541-73-1	1,3-Dichlorobenzene	570	U	3300	570
142-28-9	1,3-Dichloropropane	600	U	3300	600
106-46-7	1,4-Dichlorobenzene	530	U	3300	530
594-20-7	2,2-Dichloropropane	870	U	3300	870
78-93-3	2-Butanone (MEK)	14000	U	33000	14000
110-75-8	2-Chloroethyl vinyl ether	3900	U	33000	3900
95-49-8	2-Chlorotoluene	670	U	3300	670
591-78-6	2-Hexanone	13000	U	33000	13000
106-43-4	4-Chlorotoluene	730	U	3300	730
99-87-6	4-Isopropyltoluene	1400	U	3300	1400
108-10-1	4-Methyl-2-pentanone (MIBK)	12000	U	33000	12000
67-64-1	Acetone	11000	U	33000	11000
71-43-2	Benzene	800	U	3300	800
108-86-1	Bromobenzene	400	U	3300	400
75-25-2	Bromoform	1900	U	3300	1900
74-83-9	Bromomethane	2100	U	3300	2100
75-15-0	Carbon disulfide	930	U	3300	930
56-23-5	Carbon tetrachloride	570	U	3300	570
108-90-7	Chlorobenzene	630	U	3300	630
124-48-1	Chlorodibromomethane	1400	U	3300	1400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-301-091914 | Lab Sample ID: 240-42186-6

Matrix: Water | Lab File ID: UXC4528.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:10

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 15:23

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	1100	U	3300	1100
67-66-3	Chloroform	700	U	3300	700
74-87-3	Chloromethane	1500	U	3300	1500
156-59-2	cis-1,2-Dichloroethene	670	U	3300	670
10061-01-5	cis-1,3-Dichloropropene	1500	U	3300	1500
74-95-3	Dibromomethane	570	U	3300	570
74-97-5	Bromochloromethane	830	U	3300	830
75-71-8	Dichlorodifluoromethane	1700	U	3300	1700
75-27-4	Bromodichloromethane	500	U	3300	500
75-65-0	tert-Butyl alcohol	29000	U *	170000	29000
100-41-4	Ethylbenzene	770	U	3300	770
87-68-3	Hexachlorobutadiene	1200	U	3300	1200
108-20-3	Diisopropyl ether	630	U	33000	630
98-82-8	Isopropylbenzene	1200	U	3300	1200
1634-04-4	Methyl tert-butyl ether	530	U	3300	530
75-09-2	Methylene Chloride	930	U	3300	930
179601-23-1	m-Xylene & p-Xylene	730	U	6700	730
91-20-3	Naphthalene	1500	U	3300	1500
104-51-8	n-Butylbenzene	730	U	3300	730
103-65-1	N-Propylbenzene	1300	U	3300	1300
95-47-6	o-Xylene	700	U	3300	700
135-98-8	sec-Butylbenzene	1600	U	3300	1600
100-42-5	Styrene	1500	U	3300	1500
994-05-8	Tert-amyl methyl ether	530	U	17000	530
637-92-3	Ethyl tert-butyl ether	670	U	17000	670
127-18-4	Tetrachloroethene	670	U	3300	670
108-88-3	Toluene	730	U	3300	730
156-60-5	trans-1,2-Dichloroethene	870	U	3300	870
10061-02-6	trans-1,3-Dichloropropene	1900	U	3300	1900
79-01-6	Trichloroethene	36000		3300	500
75-69-4	Trichlorofluoromethane	1600	U *	3300	1600
108-05-4	Vinyl acetate	1400	U	6700	1400
75-01-4	Vinyl chloride	970	U	3300	970
1330-20-7	Xylenes, Total	1400	U	6700	1400
98-06-6	tert-Butylbenzene	1400	U	3300	1400
106-93-4	1,2-Dibromoethane	630	U	3300	630

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-301-091914 Lab Sample ID: 240-42186-6

Matrix: Water Lab File ID: UXC4528.D

Analysis Method: 8260C Date Collected: 09/19/2014 12:10

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 15:23

Soil Aliquot Vol: Dilution Factor: 3333.33

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 148401 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	88		74-120
1868-53-7	Dibromofluoromethane (Surr)	85		75-121
460-00-4	4-Bromofluorobenzene (Surr)	72		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-401-091914 | Lab Sample ID: 240-42186-7

Matrix: Water | Lab File ID: UXC4543.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 20:57

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	930	U	3300	930
71-55-6	1,1,1-Trichloroethane	730	U	3300	730
79-34-5	1,1,2,2-Tetrachloroethane	730	U	3300	730
76-13-1	1,1,2-Trichlorotrifluoroethane	1200	U	3300	1200
75-34-3	1,1-Dichloroethane	870	U	3300	870
75-35-4	1,1-Dichloroethene	1500	U	3300	1500
563-58-6	1,1-Dichloropropene	730	U	3300	730
87-61-6	1,2,3-Trichlorobenzene	1200	U	3300	1200
96-18-4	1,2,3-Trichloropropane	1000	U	3300	1000
526-73-8	1,2,3-Trimethylbenzene	1600	U	17000	1600
120-82-1	1,2,4-Trichlorobenzene	1100	U	3300	1100
95-63-6	1,2,4-Trimethylbenzene	1400	U	3300	1400
96-12-8	1,2-Dibromo-3-Chloropropane	2700	U	6700	2700
95-50-1	1,2-Dichlorobenzene	570	U	3300	570
107-06-2	1,2-Dichloroethane	670	U	3300	670
78-87-5	1,2-Dichloropropane	730	U	3300	730
541-73-1	1,3-Dichlorobenzene	570	U	3300	570
142-28-9	1,3-Dichloropropane	600	U	3300	600
106-46-7	1,4-Dichlorobenzene	530	U	3300	530
594-20-7	2,2-Dichloropropane	870	U	3300	870
78-93-3	2-Butanone (MEK)	14000	U	33000	14000
110-75-8	2-Chloroethyl vinyl ether	3900	U	33000	3900
95-49-8	2-Chlorotoluene	670	U	3300	670
591-78-6	2-Hexanone	13000	U	33000	13000
106-43-4	4-Chlorotoluene	730	U	3300	730
99-87-6	4-Isopropyltoluene	1400	U	3300	1400
108-10-1	4-Methyl-2-pentanone (MIBK)	12000	U	33000	12000
67-64-1	Acetone	11000	U	33000	11000
71-43-2	Benzene	800	U	3300	800
108-86-1	Bromobenzene	400	U	3300	400
75-25-2	Bromoform	1900	U	3300	1900
74-83-9	Bromomethane	2100	U	3300	2100
75-15-0	Carbon disulfide	930	U	3300	930
56-23-5	Carbon tetrachloride	570	U	3300	570
108-90-7	Chlorobenzene	630	U	3300	630
124-48-1	Chlorodibromomethane	1400	U	3300	1400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-401-091914 | Lab Sample ID: 240-42186-7

Matrix: Water | Lab File ID: UXC4543.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 20:57

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	1100	U	3300	1100
67-66-3	Chloroform	700	U	3300	700
74-87-3	Chloromethane	1500	U	3300	1500
156-59-2	cis-1,2-Dichloroethene	670	U	3300	670
10061-01-5	cis-1,3-Dichloropropene	1500	U	3300	1500
74-95-3	Dibromomethane	570	U	3300	570
74-97-5	Bromochloromethane	830	U	3300	830
75-71-8	Dichlorodifluoromethane	1700	U	3300	1700
75-27-4	Bromodichloromethane	500	U	3300	500
75-65-0	tert-Butyl alcohol	29000	U *	170000	29000
100-41-4	Ethylbenzene	770	U	3300	770
87-68-3	Hexachlorobutadiene	1200	U	3300	1200
108-20-3	Diisopropyl ether	630	U	33000	630
98-82-8	Isopropylbenzene	1200	U	3300	1200
1634-04-4	Methyl tert-butyl ether	530	U	3300	530
75-09-2	Methylene Chloride	930	U	3300	930
179601-23-1	m-Xylene & p-Xylene	730	U	6700	730
91-20-3	Naphthalene	1500	U	3300	1500
104-51-8	n-Butylbenzene	730	U	3300	730
103-65-1	N-Propylbenzene	1300	U	3300	1300
95-47-6	o-Xylene	700	U	3300	700
135-98-8	sec-Butylbenzene	1600	U	3300	1600
100-42-5	Styrene	1500	U	3300	1500
994-05-8	Tert-amyl methyl ether	530	U	17000	530
637-92-3	Ethyl tert-butyl ether	670	U	17000	670
127-18-4	Tetrachloroethene	670	U	3300	670
108-88-3	Toluene	730	U	3300	730
156-60-5	trans-1,2-Dichloroethene	870	U	3300	870
10061-02-6	trans-1,3-Dichloropropene	1900	U	3300	1900
79-01-6	Trichloroethene	83000		3300	500
75-69-4	Trichlorofluoromethane	1600	U *	3300	1600
108-05-4	Vinyl acetate	1400	U	6700	1400
75-01-4	Vinyl chloride	970	U	3300	970
1330-20-7	Xylenes, Total	1400	U	6700	1400
98-06-6	tert-Butylbenzene	1400	U	3300	1400
106-93-4	1,2-Dibromoethane	630	U	3300	630

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-401-091914 Lab Sample ID: 240-42186-7

Matrix: Water Lab File ID: UXC4543.D

Analysis Method: 8260C Date Collected: 09/19/2014 12:15

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 20:57

Soil Aliquot Vol: Dilution Factor: 3333.33

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 148401 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	91		74-120
1868-53-7	Dibromofluoromethane (Surr)	83		75-121
460-00-4	4-Bromofluorobenzene (Surr)	72		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	76		63-129

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 13:51 Calibration End Date: 07/07/2014 15:42 Calibration ID: 23134

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-137439/7	UXC2888.D
Level 2	STD8260 240-137439/6	UXC2887.D
Level 3	STD8260 240-137439/5	UXC2886.D
Level 4	STD8260 240-137439/4	UXC2885.D
Level 5	STD8260 240-137439/3	UXC2884.D
Level 6	STD8260 240-137439/2	UXC2883.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	0.5185 0.4537	0.4690	0.4887	0.4869	0.4959	Ave		0.4855			0.1000	4.6		15.0			
Chloromethane	0.5339 0.4004	0.4651	0.4470	0.4303	0.4372	Ave		0.4523			0.1000	10.0		15.0			
Vinyl chloride	0.5300 0.4468	0.4946	0.4756	0.4807	0.4888	Ave		0.4861			0.1000	5.6		15.0			
Bromomethane	0.2275 0.1485	0.1930	0.1904	0.1845	0.1740	Ave		0.1863			0.0500	14.0		15.0			
Chloroethane	0.2853 0.2279	0.2627	0.2578	0.2586	0.2585	Ave		0.2585				7.1		15.0			
Dichlorofluoromethane	0.5965 0.4922	0.5509	0.5626	0.5528	0.5620	Ave		0.5528				6.1		15.0			
Trichlorofluoromethane	0.3522 0.3499	0.3587	0.3905	0.3919	0.3888	Ave		0.3720			0.1000	5.5		15.0			
Ethyl ether	0.2827 0.2673	0.2762	0.2904	0.2925	0.2859	Ave		0.2825				3.3		15.0			
Acrolein	0.0213 0.0190	0.0174	0.0201	0.0191	0.0190	Ave		0.0193				6.8		15.0			
1,1-Dichloroethene	0.3691 0.3532	0.3549	0.3530	0.3627	0.3686	Ave		0.3603			0.1000	2.1		15.0			
1,1,2-Trichlorotrifluoroethane	0.3125 0.2754	0.2716	0.2753	0.2847	0.2834	Ave		0.2838			0.0500	5.3		15.0			
Acetone	0.1476 0.0820	0.0927	0.0835	0.0732	0.0776	Lin1	0.1004	0.0771			0.0500				0.9940		0.9900
Iodomethane	0.5498 0.5096	0.5266	0.5421	0.5452	0.5465	Ave		0.5366				2.9		15.0			
Carbon disulfide	0.9993 1.0535	1.0226	1.0293	1.0687	1.0926	Ave		1.0443			0.1000	3.2		15.0			
3-Chloro-1-propene	0.2001 0.2172	0.1924	0.2089	0.2178	0.2257	Ave		0.2103				5.9		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 13:51 Calibration End Date: 07/07/2014 15:42 Calibration ID: 23134

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								
Methyl acetate	0.2083 0.1821	0.1618	0.1810	0.1774	0.1825	Ave		0.1822			0.1000	8.2		15.0			
Methylene Chloride	0.7383 0.3495	0.5342	0.4256	0.4019	0.3837	Lin1	0.3932	0.3494			0.1000				0.9990		0.9900
tert-Butyl alcohol	0.0130 0.0133	0.0112	0.0123	0.0125	0.0126	Ave		0.0125				5.9		15.0			
Acrylonitrile	0.0906 0.0932	0.0862	0.0911	0.0894	0.0921	Ave		0.0904				2.7		15.0			
Methyl tert-butyl ether	0.8794 0.9257	0.8512	0.8814	0.9233	0.9515	Ave		0.9021			0.1000	4.1		15.0			
trans-1,2-Dichloroethene	0.3846 0.3616	0.3880	0.3813	0.3803	0.3799	Ave		0.3793			0.1000	2.4		15.0			
Hexane	0.0871 0.0871	0.0892	0.0870	0.0895	0.0918	Ave		0.0886				2.2		15.0			
1,1-Dichloroethane	0.6308 0.6443	0.6460	0.6588	0.6652	0.6694	Ave		0.6525			0.1000	2.2		15.0			
Vinyl acetate	0.4208 0.4297	0.3220	0.3695	0.3898	0.4231	Ave		0.3925				11.0		15.0			
2,2-Dichloropropane	0.3427 0.3469	0.3395	0.3739	0.3862	0.3962	Ave		0.3643				6.7		15.0			
cis-1,2-Dichloroethene	0.3877 0.3770	0.3868	0.3982	0.3986	0.3992	Ave		0.3913			0.1000	2.3		15.0			
2-Butanone (MEK)	0.0894 0.0997	0.0870	0.0936	0.0938	0.0987	Ave		0.0937			0.0500	5.3		15.0			
Bromochloromethane	0.1749 0.1728	0.1693	0.1831	0.1787	0.1804	Ave		0.1765				2.9		15.0			
Tetrahydrofuran	0.0864 0.0655	0.0824	0.0620	0.0616	0.0641	Lin1	0.0442	0.0634							0.9980		0.9900
Chloroform	0.6267 0.6269	0.6188	0.6431	0.6488	0.6573	Ave		0.6369				2.4		15.0			
1,1,1-Trichloroethane	0.4612 0.4745	0.4674	0.5071	0.5154	0.5157	Ave		0.4902			0.1000	5.1		15.0			
Cyclohexane	0.6688 0.6357	0.6093	0.6365	0.6539	0.6505	Ave		0.6425			0.1000	3.2		15.0			
1,1-Dichloropropene	0.4679 0.4770	0.4554	0.4753	0.4863	0.4983	Ave		0.4767				3.1		15.0			
Carbon tetrachloride	0.3621 0.4359	0.3729	0.4168	0.4356	0.4576	Ave		0.4135			0.1000	9.2		15.0			
Isobutyl alcohol	0.0046 0.0059	0.0063	0.0050	0.0052	0.0059	Ave		0.0055				12.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 13:51 Calibration End Date: 07/07/2014 15:42 Calibration ID: 23134

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								
Benzene	1.4551 1.4553	1.4137	1.4300	1.4342	1.4732	Ave		1.4436			0.5000	1.5		15.0			
1,2-Dichloroethane	0.4900 0.4769	0.4911	0.4791	0.4828	0.4897	Ave		0.4849			0.1000	1.3		15.0			
n-Heptane	0.0700 0.0787	0.0759	0.0743	0.0794	0.0791	Ave		0.0762				4.8		15.0			
Trichloroethene	0.3937 0.3695	0.4032	0.3716	0.3793	0.3743	Ave		0.3819			0.2000	3.5		15.0			
Methylcyclohexane	0.5596 0.5761	0.5495	0.5789	0.5905	0.6013	Ave		0.5760			0.1000	3.3		15.0			
1,2-Dichloropropane	0.3259 0.3199	0.2979	0.3103	0.3195	0.3228	Ave		0.3161			0.1000	3.3		15.0			
Dibromomethane	0.1783 0.1784	0.1645	0.1744	0.1789	0.1833	Ave		0.1763				3.7		15.0			
1,4-Dioxane	0.0007 0.0019	0.0026	0.0014	0.0024	0.0024	Qua	-0.061	0.0030	0						0.9940		0.9900
Bromodichloromethane	0.3462 0.4296	0.3360	0.3696	0.4041	0.4264	Ave		0.3853			0.1000	11.0		15.0			
2-Chloroethyl vinyl ether	0.1412 0.1520	0.1294	0.1324	0.1398	0.1452	Ave		0.1400				5.9		15.0			
cis-1,3-Dichloropropene	0.3545 0.4687	0.3760	0.3949	0.4307	0.4465	Ave		0.4119			0.1500	11.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.2206 0.2089	0.2000	0.2037	0.1972	0.2055	Ave		0.2060			0.0500	4.0		15.0			
Toluene	2.0507 2.1262	2.0014	2.0122	2.0738	2.1176	Ave		2.0637			0.4000	2.5		15.0			
trans-1,3-Dichloropropene	0.4169 0.5351	0.4271	0.4563	0.4951	0.5258	Ave		0.4760			0.1000	11.0		15.0			
Ethyl methacrylate	0.3148 0.4014	0.3341	0.3479	0.3780	0.3996	Ave		0.3626				9.9		15.0			
1,1,2-Trichloroethane	0.3895 0.3404	0.3378	0.3573	0.3490	0.3484	Ave		0.3537			0.1000	5.3		15.0			
Tetrachloroethene	0.3876 0.3943	0.4084	0.4074	0.4116	0.4102	Ave		0.4033			0.2000	2.5		15.0			
1,3-Dichloropropane	0.6470 0.6038	0.6035	0.6055	0.6174	0.6344	Ave		0.6186				3.0		15.0			
2-Hexanone	0.1724 0.1938	0.2100	0.1984	0.1894	0.1895	Ave		0.1922			0.0500	6.4		15.0			
Chlorodibromomethane	0.2450 0.3844	0.2584	0.3010	0.3402	0.3765	Lin1	-0.207	0.3823							0.9980		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 13:51 Calibration End Date: 07/07/2014 15:42 Calibration ID: 23134

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-Dibromoethane	0.3242 0.3264	0.3030	0.3180	0.3224	0.3380	Ave		0.3220				3.6		15.0			
Chlorobenzene	1.2708 1.2667	1.2502	1.2741	1.2946	1.3046	Ave		1.2768			0.3000	1.5		15.0			
1,1,1,2-Tetrachloroethane	0.3694 0.4559	0.3655	0.4223	0.4400	0.4701	Ave		0.4205				10.0		15.0			
Ethylbenzene	0.6513 0.7149	0.6755	0.7013	0.7242	0.7318	Ave		0.6999				4.4		15.0			
m-Xylene & p-Xylene	1.4951 1.8155	1.6868	1.7501	1.7871	1.8400	Ave		1.7291				7.3		15.0			
o-Xylene	0.7931 0.8866	0.8314	0.8655	0.8911	0.9255	Ave		0.8655				5.4		15.0			
Styrene	1.1481 1.3583	1.1802	1.2532	1.2977	1.3616	Ave		1.2665			0.3000	7.1		15.0			
Bromoform	0.1058 0.2127	0.1299	0.1501	0.1701	0.1979	Lin1	-0.148	0.2073			0.1000				0.9940		0.9900
Isopropylbenzene	2.0195 2.3307	2.1078	2.2387	2.3050	2.3678	Ave		2.2283			0.1000	6.2		15.0			
1,1,2,2-Tetrachloroethane	0.6324 0.7125	0.5384	0.6941	0.7093	0.7304	Ave		0.6695			0.3000	11.0		15.0			
Bromobenzene	0.8741 0.9025	0.8388	0.9218	0.9294	0.9343	Ave		0.9001				4.1		15.0			
1,2,3-Trichloropropane	0.2555 0.2342	0.2172	0.2456	0.2519	0.2372	Ave		0.2403				5.8		15.0			
trans-1,4-Dichloro-2-butene	0.1525 0.2012	0.1471	0.1572	0.1807	0.1941	Ave		0.1721				13.0		15.0			
N-Propylbenzene	0.8205 1.0191	0.9149	1.0382	1.0443	1.0393	Ave		0.9794				9.4		15.0			
2-Chlorotoluene	0.7972 0.8860	0.8417	0.9029	0.9179	0.9104	Ave		0.8760				5.4		15.0			
1,3,5-Trimethylbenzene	2.5562 3.2930	2.7910	3.0911	3.1976	3.3171	Ave		3.0410				10.0		15.0			
4-Chlorotoluene	2.8194 3.1674	2.9308	3.1143	3.1594	3.1988	Ave		3.0650				5.0		15.0			
tert-Butylbenzene	2.1953 2.8480	2.4404	2.5355	2.6364	2.7352	Ave		2.5651				9.0		15.0			
1,2,4-Trimethylbenzene	2.8275 3.4019	3.0100	3.2556	3.3661	3.4503	Ave		3.2186				7.7		15.0			
sec-Butylbenzene	2.9192 3.7717	3.2115	3.5149	3.6192	3.7946	Ave		3.4718				9.9		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 13:51 Calibration End Date: 07/07/2014 15:42 Calibration ID: 23134

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								
1,3-Dichlorobenzene	1.8485 1.7848	1.7594	1.8097	1.8243	1.8351	Ave		1.8103			0.6000	1.8		15.0			
4-Isopropyltoluene	2.5602 3.3659	2.9002	3.1425	3.2497	3.3761	Ave		3.0991				10.0		15.0			
1,4-Dichlorobenzene	1.9122 1.8351	1.8253	1.8468	1.8636	1.8875	Ave		1.8618			0.5000	1.8		15.0			
n-Butylbenzene	2.1866 2.7762	2.4005	2.6206	2.7160	2.8039	Ave		2.5840				9.4		15.0			
1,2-Dichlorobenzene	1.8544 1.7439	1.7824	1.8010	1.8028	1.8284	Ave		1.8021			0.4000	2.1		15.0			
1,2-Dibromo-3-Chloropropane	0.0994 0.1370	0.1018	0.1154	0.1210	0.1388	Ave		0.1189			0.0500	14.0		15.0			
1,2,4-Trichlorobenzene	1.2445 1.1417	1.1644	1.2181	1.1875	1.1995	Ave		1.1926			0.2000	3.1		15.0			
Hexachlorobutadiene	0.5180 0.4537	0.4987	0.5151	0.5015	0.4990	Ave		0.4977				4.6		15.0			
Naphthalene	2.6784 2.7064	2.4141	2.8004	2.7641	2.9109	Ave		2.7124				6.2		15.0			
1,2,3-Trichlorobenzene	1.1428 1.0321	1.0481	1.1608	1.1017	1.1215	Ave		1.1012				4.7		15.0			
Dibromofluoromethane (Surr)	0.2882 0.3142	0.2764	0.3269	0.3226	0.3373	Ave		0.3110				7.6		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3997 0.3923	0.3804	0.4046	0.3939	0.4100	Ave		0.3968				2.6		15.0			
Toluene-d8 (Surr)	1.6695 1.8558	1.7069	1.8342	1.8223	1.8910	Ave		1.7966				4.9		15.0			
4-Bromofluorobenzene (Surr)	0.6406 0.6253	0.6079	0.6432	0.6408	0.6665	Ave		0.6374				3.1		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 13:51 Calibration End Date: 07/07/2014 15:42 Calibration ID: 23134

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-137439/7	UXC2888.D
Level 2	STD8260 240-137439/6	UXC2887.D
Level 3	STD8260 240-137439/5	UXC2886.D
Level 4	STD8260 240-137439/4	UXC2885.D
Level 5	STD8260 240-137439/3	UXC2884.D
Level 6	STD8260 240-137439/2	UXC2883.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	54215 2522416	113326	316319	642613	1334422	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	55831 2225646	112384	289299	567881	1176315	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	55427 2483885	119498	307837	634430	1315114	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	23786 825684	46638	123267	243495	468162	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	29836 1266699	63476	166897	341277	695500	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	62371 2736341	133112	364133	729576	1512267	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	36825 1945111	86669	252747	517297	1046030	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	29557 1486002	66730	187953	385998	769354	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	11142 528563	20975	64964	126124	256264	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	38595 1963328	85753	228491	478693	991930	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	32682 1531225	65633	178221	375701	762639	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	30879 911496	44789	108097	193352	417486	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	57491 2833100	127238	350886	719530	1470475	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	104495 5856717	247071	666202	1410490	2939828	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	20926 1207266	46482	135221	287429	607320	1.00 40.0	2.00	5.00	10.0	20.0
Methyl acetate	FB	Ave	108890 5062323	195500	585634	1170740	2455879	5.00 200	10.0	25.0	50.0	100

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 13:51 Calibration End Date: 07/07/2014 15:42 Calibration ID: 23134

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methylene Chloride	FB	Lin1	77205 1942946	129073	275498	530508	1032555	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butyl alcohol	FB	Ave	13622 736918	26974	79770	164696	339742	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	94765 5178351	208181	589896	1179587	2478807	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	91954 5146182	205658	570498	1218545	2560296	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	40220 2010405	93755	246785	501883	1022101	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	9107 484243	21542	56324	118098	246995	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	65965 3582030	156088	426444	877977	1801280	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	42243 2293043	74683	229590	493877	1092842	0.960 38.4	1.92	4.80	9.60	19.2
2,2-Dichloropropane	FB	Ave	35836 1928581	82035	242039	509785	1066119	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	40540 2095968	93445	257736	526126	1074194	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	18690 1108296	42048	121195	247542	530976	2.00 80.0	4.00	10.0	20.0	40.0
Bromochloromethane	FB	Ave	18294 960353	40899	118494	235790	485394	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Lin1	18064 728183	39809	80205	162700	345036	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	65531 3484937	149517	416245	856346	1768738	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	48223 2637890	112921	328235	680254	1387688	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	69932 3534002	147222	411990	863084	1750300	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	48931 2651748	110036	307664	641820	1340747	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	37867 2423097	90105	269752	574876	1231315	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	FB	Ave	11917 816653	38067	81190	169945	395314	25.0 1000	50.0	125	250	500
Benzene	FB	Ave	152155 8090238	341560	925575	1892925	3963902	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	51239 2651398	118650	310115	637263	1317540	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 13:51 Calibration End Date: 07/07/2014 15:42 Calibration ID: 23134

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Heptane	FB	Ave	7315 437772	18330	48088	104805	212814	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	41173 2054218	97416	240513	500589	1007083	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	58519 3202362	132766	374722	779331	1617994	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	34083 1778623	71987	200852	421711	868472	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	18649 991721	39739	112907	236169	493167	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Qua	1549 211455	12804	18285	62210	129708	20.0 800	40.0	100	200	400
Bromodichloromethane	FB	Ave	36206 2388084	81192	239261	533344	1147253	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	29520 1690418	62526	171400	368963	781389	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	37074 2605691	90846	255628	568403	1201365	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	46127 2322333	96663	263751	520628	1105790	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	148141 8099066	326998	850605	1816027	3782494	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	30114 2038259	69775	192882	433554	939224	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	22738 1528982	54584	147077	330987	713714	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	28137 1296572	55198	151058	305599	622260	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	27996 1501942	66728	172220	360476	732774	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	46738 2300126	98610	255951	540614	1133189	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	24906 1476365	68621	167750	331636	677077	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Lin1	17698 1464245	42211	127240	297917	672457	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	23421 1243256	49507	134421	282283	603827	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	91796 4825293	204268	538583	1133642	2330263	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	26683 1736719	59724	178498	385298	839628	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 13:51 Calibration End Date: 07/07/2014 15:42 Calibration ID: 23134

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethylbenzene	CBZ	Ave	47049 2723365	110371	296472	634165	1307175	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	108002 6915639	275595	739823	1564977	3286592	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	57291 3377187	135844	365854	780294	1653089	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	82933 5174289	192825	529760	1136365	2432177	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Lin1	7645 810050	21224	63462	148924	353511	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	145887 8878136	344382	946364	2018470	4229381	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	27447 1564174	53393	169608	358635	764357	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	37937 1981238	83188	225259	469876	977641	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	11089 514235	21541	60010	127375	248224	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	6618 441752	14584	38419	91367	203141	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	35613 2237206	90732	253718	527990	1087547	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	34601 1945069	83473	220646	464080	952683	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	110946 7229215	276788	755375	1616650	3471086	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	122372 6953390	290651	761047	1597337	3347292	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	95283 6252333	242015	619607	1332932	2862142	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	122723 7468304	298503	795584	1701854	3610449	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	126703 8280005	318481	858955	1829796	3970730	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	80232 3918228	174483	442231	922352	1920320	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	111121 7389231	287617	767931	1643013	3532866	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	82996 4028641	181018	451309	942185	1975168	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	94907 6094623	238054	640391	1373157	2934119	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 13:51 Calibration End Date: 07/07/2014 15:42 Calibration ID: 23134

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	80485 3828319	176757	440127	911446	1913334	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	4315 300808	10095	28189	61189	145272	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	54017 2506357	115476	297677	600395	1255208	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	22485 996045	49460	125874	253533	522214	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	116252 5941431	239409	684348	1397484	3046053	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	49603 2265827	103938	283657	557013	1173609	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	30138 1746846	66791	211585	425790	907658	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	41792 2180649	91904	261905	519852	1103095	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	120602 7069141	278876	775386	1595747	3377692	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	46274 2381859	99327	271898	561106	1190485	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 16:04 Calibration End Date: 07/07/2014 17:57 Calibration ID: 23136

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-137439/13	UXC2894.D
Level 2	STD 240-137439/12	UXC2893.D
Level 3	STD 240-137439/11	UXC2892.D
Level 4	STD 240-137439/10	UXC2891.D
Level 5	STD 240-137439/9	UXC2890.D
Level 6	STD 240-137439/8	UXC2889.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								
Acetonitrile	0.0208 0.0260	0.0249	0.0148	0.0331	0.0264	Qua	-0.188	0.0303	0						0.9910		0.9900
Diisopropyl ether	0.2925 0.3119	0.2981	0.3065	0.3029	0.3296	Ave		0.3069				4.2		15.0			
2-Chloro-1,3-butadiene	0.5275 0.5743	0.5272	0.5624	0.5679	0.6000	Ave		0.5599				5.1		15.0			
Ethyl tert-butyl ether	0.8485 0.9769	0.8591	0.9093	0.9354	0.9910	Ave		0.9200				6.4		15.0			
Ethyl acetate	0.1821 0.1851	0.1582	0.1659	0.1862	0.1947	Ave		0.1787				7.7		15.0			
Propionitrile	0.0323 0.0362	0.0273	0.0318	0.0379	0.0340	Ave		0.0332				11.0		15.0			
Methacrylonitrile	0.1403 0.1646	0.1544	0.1553	0.1702	0.1710	Ave		0.1593				7.3		15.0			
Tert-amyl methyl ether	0.6636 0.7924	0.7040	0.7109	0.7379	0.8071	Ave		0.7360				7.5		15.0			
n-Butanol	0.0039 0.0033	0.0037	0.0027	0.0032	0.0036	Ave		0.0034				13.0		15.0			
Ethyl acrylate	0.1950 0.2622	0.2057	0.2109	0.2583	0.2590	Ave		0.2318				13.0		15.0			
Methyl methacrylate	0.1749 0.2110	0.1707	0.1897	0.2129	0.2132	Ave		0.1954				10.0		15.0			
2-Nitropropane	0.0290 0.0378	0.0311	0.0297	0.0371	0.0351	Ave		0.0333				12.0		15.0			
1-Chlorohexane	0.4967 0.5412	0.4676	0.4961	0.5010	0.5253	Ave		0.5046				5.1		15.0			
Cyclohexanone	0.0131 0.0160	0.0182	0.0132	0.0162	0.0135	Ave		0.0150				14.0		15.0			
1,2,3-Trimethylbenzene	2.6991 3.6050	2.8520	3.1247	3.2762	3.5049	Ave		3.1770				11.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 16:04 Calibration End Date: 07/07/2014 17:57 Calibration ID: 23136

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								
1,3,5-Trichlorobenzene	1.2475 1.3380	1.2426	1.2624	1.2454	1.3320	Ave		1.2780				3.5		15.0			
2-Methylnaphthalene	1.0878 1.7640	1.4009	1.4187	1.6214	1.7445	Lin1	-1.650	1.7641							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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 16:04 Calibration End Date: 07/07/2014 17:57 Calibration ID: 23136

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-137439/13	UXC2894.D
Level 2	STD 240-137439/12	UXC2893.D
Level 3	STD 240-137439/11	UXC2892.D
Level 4	STD 240-137439/10	UXC2891.D
Level 5	STD 240-137439/9	UXC2890.D
Level 6	STD 240-137439/8	UXC2889.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Qua	24530 1288026	58729	92750	422108	649832	10.0 400	20.0	50.0	100	200
Diisopropyl ether	FB	Ave	34415 1546409	70445	191724	386462	811251	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	62068 2848014	124594	351852	724488	1476792	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	99838 4844053	203019	568881	1193360	2439130	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	42854 1835383	74762	207555	475127	958321	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	37998 1794691	64522	198862	483310	836888	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	165081 8161246	364818	971398	2171176	4208168	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	78079 3929143	166364	444742	941400	1986493	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	FB	Ave	11596 410208	22097	42026	102452	219947	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	22940 1300134	48600	131930	329468	637432	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	41169 2092294	80661	237352	543132	1049215	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	6823 375319	14708	37212	94758	172996	2.00 80.0	4.00	10.0	20.0	40.0
1-Chlorohexane	CBZ	Ave	37998 1803793	75490	204691	442099	886669	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Ave	5825 303871	16684	30739	81260	127684	10.0 400	20.0	50.0	100	200
1,2,3-Trimethylbenzene	DCB	Ave	120076 6841007	262146	729927	1644314	3316010	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	55497 2539065	114219	294894	625058	1260179	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42186-1 Analy Batch No.: 137439

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/07/2014 16:04 Calibration End Date: 07/07/2014 17:57 Calibration ID: 23136

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methylnaphthalene	DCB	Lin1	96783 6694706	257536	662831	1627565	3300862	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab Sample ID: ICV 240-137439/14 Calibration Date: 07/07/2014 18:20

Instrument ID: A3UX15 Calib Start Date: 07/07/2014 13:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/07/2014 15:42

Lab File ID: UXC2895.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	0.4855	0.3884	0.1000	0.00800	0.0100	-20.0	20.0
Chloromethane	Ave	0.4523	0.4209	0.1000	0.00931	0.0100	-6.9	20.0
Vinyl chloride	Ave	0.4861	0.4599	0.1000	0.00946	0.0100	-5.4	20.0
Bromomethane	Ave	0.1863	0.1690	0.0500	0.00907	0.0100	-9.3	20.0
Chloroethane	Ave	0.2585	0.2430	0.0500	0.00940	0.0100	-6.0	20.0
Dichlorofluoromethane	Ave	0.5528	0.4617		0.00835	0.0100	-16.5	20.0
Trichlorofluoromethane	Ave	0.3720	0.3463	0.1000	0.00931	0.0100	-6.9	20.0
Ethyl ether	Ave	0.2825	0.2815		0.00997	0.0100	-0.3	20.0
Acrolein	Ave	0.0193	0.0162		0.0419	0.0500	-16.3	20.0
1,1-Dichloroethene	Ave	0.3603	0.3458	0.1000	0.00960	0.0100	-4.0	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.2838	0.2670	0.0500	0.00941	0.0100	-5.9	20.0
Acetone	Lin1		0.0714	0.0500	0.0172	0.0200	-13.9	20.0
Iodomethane	Ave	0.5366	0.5756		0.0107	0.0100	7.3	20.0
Carbon disulfide	Ave	1.044	1.017	0.1000	0.00974	0.0100	-2.6	20.0
3-Chloro-1-propene	Ave	0.2103	0.1921		0.00913	0.0100	-8.7	20.0
Methyl acetate	Ave	0.1822	0.1666	0.1000	0.0457	0.0500	-8.6	20.0
Methylene Chloride	Lin1		0.3958	0.1000	0.0102	0.0100	2.0	20.0
tert-Butyl alcohol	Ave	0.0125	0.0111		0.0891	0.100	-10.9	20.0
Acrylonitrile	Ave	0.0904	0.0870		0.0962	0.100	-3.8	20.0
Methyl tert-butyl ether	Ave	0.9021	0.8279	0.1000	0.00918	0.0100	-8.2	20.0
trans-1,2-Dichloroethene	Ave	0.3793	0.3769	0.1000	0.00994	0.0100	-0.6	20.0
Hexane	Ave	0.0886	0.0903		0.0102	0.0100	1.9	20.0
1,1-Dichloroethane	Ave	0.6525	0.6441	0.1000	0.00987	0.0100	-1.3	20.0
Vinyl acetate	Ave	0.3925	0.4537		0.00925	0.00800	15.6	20.0
2,2-Dichloropropane	Ave	0.3643	0.3166		0.00869	0.0100	-13.1	20.0
cis-1,2-Dichloroethene	Ave	0.3913	0.3862	0.1000	0.00987	0.0100	-1.3	20.0
2-Butanone (MEK)	Ave	0.0937	0.0874	0.0500	0.0187	0.0200	-6.7	20.0
Bromochloromethane	Ave	0.1765	0.1727		0.00979	0.0100	-2.1	20.0
Tetrahydrofuran	Lin1		0.0626		0.0190	0.0200	-4.8	20.0
Chloroform	Ave	0.6369	0.6228	0.2000	0.00978	0.0100	-2.2	20.0
1,1,1-Trichloroethane	Ave	0.4902	0.4689	0.1000	0.00956	0.0100	-4.4	20.0
Cyclohexane	Ave	0.6425	0.6177	0.1000	0.00961	0.0100	-3.9	20.0
1,1-Dichloropropene	Ave	0.4767	0.4985		0.0105	0.0100	4.6	20.0
Carbon tetrachloride	Ave	0.4135	0.3932	0.1000	0.00951	0.0100	-4.9	20.0
Isobutyl alcohol	Ave	0.0055	0.0058		0.267	0.250	6.7	20.0
Benzene	Ave	1.444	1.401	0.5000	0.00971	0.0100	-2.9	20.0
1,2-Dichloroethane	Ave	0.4849	0.4750	0.1000	0.00979	0.0100	-2.1	20.0
n-Heptane	Ave	0.0762	0.0769		0.0101	0.0100	0.9	20.0
Trichloroethene	Ave	0.3819	0.3861	0.2000	0.0101	0.0100	1.1	20.0
Methylcyclohexane	Ave	0.5760	0.5516	0.1000	0.00958	0.0100	-4.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab Sample ID: ICV 240-137439/14 Calibration Date: 07/07/2014 18:20

Instrument ID: A3UX15 Calib Start Date: 07/07/2014 13:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/07/2014 15:42

Lab File ID: UXC2895.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-Dichloropropane	Ave	0.3161	0.3048	0.1000	0.00964	0.0100	-3.6	20.0
Dibromomethane	Ave	0.1763	0.1767		0.0100	0.0100	0.2	20.0
1,4-Dioxane	Qua		0.0021		0.177	0.200	-11.5	20.0
Bromodichloromethane	Ave	0.3853	0.3743	0.1000	0.00971	0.0100	-2.9	20.0
2-Chloroethyl vinyl ether	Ave	0.1400	0.1439		0.0123	0.0120	2.8	20.0
cis-1,3-Dichloropropene	Ave	0.4119	0.4105	0.1500	0.00997	0.0100	-0.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2060	0.1882	0.0500	0.0183	0.0200	-8.6	20.0
Toluene	Ave	2.064	2.063	0.4000	0.0100	0.0100	-0.0	20.0
trans-1,3-Dichloropropene	Ave	0.4760	0.5003	0.1000	0.0105	0.0100	5.1	20.0
Ethyl methacrylate	Ave	0.3626	0.4015		0.0111	0.0100	10.7	20.0
1,1,2-Trichloroethane	Ave	0.3537	0.3408	0.1000	0.00963	0.0100	-3.7	20.0
Tetrachloroethene	Ave	0.4033	0.4024	0.2000	0.00998	0.0100	-0.2	20.0
1,3-Dichloropropane	Ave	0.6186	0.6216		0.0100	0.0100	0.5	20.0
2-Hexanone	Ave	0.1922	0.1757	0.0500	0.0183	0.0200	-8.6	20.0
Chlorodibromomethane	Lin1		0.3023		0.00845	0.0100	-15.5	20.0
1,2-Dibromoethane	Ave	0.3220	0.3188		0.00990	0.0100	-1.0	20.0
Chlorobenzene	Ave	1.277	1.249	0.3000	0.00979	0.0100	-2.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4205	0.3983		0.00947	0.0100	-5.3	20.0
Ethylbenzene	Ave	0.6999	0.6967		0.00995	0.0100	-0.5	20.0
m-Xylene & p-Xylene	Ave	1.729	1.733		0.0100	0.0100	0.2	20.0
o-Xylene	Ave	0.8655	0.8763		0.0101	0.0100	1.3	20.0
Styrene	Ave	1.267	1.288	0.3000	0.0102	0.0100	1.7	20.0
Bromoform	Lin1		0.1368	0.1000	0.00731	0.0100	-26.9*	20.0
Isopropylbenzene	Ave	2.228	2.207	0.1000	0.00990	0.0100	-1.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6695	0.6626	0.3000	0.00990	0.0100	-1.0	20.0
Bromobenzene	Ave	0.9001	0.8896		0.00988	0.0100	-1.2	20.0
1,2,3-Trichloropropane	Ave	0.2403	0.2394		0.00996	0.0100	-0.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1721	0.1614		0.00937	0.0100	-6.3	20.0
N-Propylbenzene	Ave	0.9794	0.9783		0.00999	0.0100	-0.1	20.0
2-Chlorotoluene	Ave	0.8760	0.8786		0.0100	0.0100	0.3	20.0
1,3,5-Trimethylbenzene	Ave	3.041	3.048		0.0100	0.0100	0.2	20.0
4-Chlorotoluene	Ave	3.065	3.015		0.00984	0.0100	-1.6	20.0
tert-Butylbenzene	Ave	2.565	2.575		0.0100	0.0100	0.4	20.0
1,2,4-Trimethylbenzene	Ave	3.219	3.155		0.00980	0.0100	-2.0	20.0
sec-Butylbenzene	Ave	3.472	3.471		0.0100	0.0100	-0.0	20.0
1,3-Dichlorobenzene	Ave	1.810	1.748	0.6000	0.00966	0.0100	-3.4	20.0
4-Isopropyltoluene	Ave	3.099	3.018		0.00974	0.0100	-2.6	20.0
1,4-Dichlorobenzene	Ave	1.862	1.804	0.5000	0.00969	0.0100	-3.1	20.0
n-Butylbenzene	Ave	2.584	2.507		0.00970	0.0100	-3.0	20.0
1,2-Dichlorobenzene	Ave	1.802	1.705	0.4000	0.00946	0.0100	-5.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1189	0.1088	0.0500	0.00915	0.0100	-8.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab Sample ID: ICV 240-137439/14 Calibration Date: 07/07/2014 18:20

Instrument ID: A3UX15 Calib Start Date: 07/07/2014 13:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/07/2014 15:42

Lab File ID: UXC2895.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
1,2,4-Trichlorobenzene	Ave	1.193	1.077	0.2000	0.00903	0.0100	-9.7	20.0
Hexachlorobutadiene	Ave	0.4977	0.4195		0.00843	0.0100	-15.7	20.0
Naphthalene	Ave	2.712	2.486		0.00917	0.0100	-8.3	20.0
1,2,3-Trichlorobenzene	Ave	1.101	0.9682		0.00879	0.0100	-12.1	20.0
Dibromofluoromethane (Surr)	Ave	0.3110	0.2584		0.00740	0.00890	-16.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3968	0.3278		0.00735	0.00890	-17.4	20.0
Toluene-d8 (Surr)	Ave	1.797	1.577		0.00781	0.00890	-12.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6374	0.5565		0.00777	0.00890	-12.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab Sample ID: ICV 240-137439/15 Calibration Date: 07/07/2014 18:42

Instrument ID: A3UX15 Calib Start Date: 07/07/2014 13:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/07/2014 15:42

Lab File ID: UXC2896.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	0.3110	0.2620		0.00750	0.00890	-15.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3968	0.3515		0.00788	0.00890	-11.4	20.0
Toluene-d8 (Surr)	Ave	1.797	1.536		0.00761	0.00890	-14.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6374	0.5501		0.00768	0.00890	-13.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab Sample ID: ICV 240-137439/15 Calibration Date: 07/07/2014 18:42

Instrument ID: A3UX15 Calib Start Date: 07/07/2014 16:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/07/2014 17:57

Lab File ID: UXC2896.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
Acetonitrile	Qua		0.0323		0.117	0.100	17.1	20.0
Diisopropyl ether	Ave	0.3069	0.3273		0.0107	0.0100	6.6	20.0
2-Chloro-1,3-butadiene	Ave	0.5599	0.5885		0.0105	0.0100	5.1	20.0
Ethyl tert-butyl ether	Ave	0.9200	0.9581		0.0104	0.0100	4.1	20.0
Ethyl acetate	Ave	0.1787	0.1340		0.0150	0.0200	-25.0*	20.0
Propionitrile	Ave	0.0332	0.0360		0.108	0.100	8.3	20.0
Methacrylonitrile	Ave	0.1593	0.1639		0.103	0.100	2.9	20.0
Tert-amyl methyl ether	Ave	0.7360	0.7809		0.0106	0.0100	6.1	20.0
n-Butanol	Ave	0.0034	0.0038		0.280	0.250	12.0	20.0
Ethyl acrylate	Ave	0.2318	0.2393		0.0103	0.0100	3.2	20.0
Methyl methacrylate	Ave	0.1954	0.2097		0.0215	0.0200	7.3	20.0
2-Nitropropane	Ave	0.0333	0.0274		0.0164	0.0200	-17.9	20.0
Cyclohexanone	Ave	0.0150	0.0144		0.0958	0.100	-4.2	20.0
1,2,3-Trimethylbenzene	Ave	3.177	3.249		0.0102	0.0100	2.3	20.0
1,3,5-Trichlorobenzene	Ave	1.278	1.282		0.0100	0.0100	0.3	20.0
2-Methylnaphthalene	Lin1		1.466		0.0176	0.0200	-12.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab Sample ID: CCVIS 240-148401/2 Calibration Date: 09/24/2014 09:59

Instrument ID: A3UX15 Calib Start Date: 07/07/2014 13:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/07/2014 15:42

Lab File ID: UXC4514.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	0.4855	0.3752	0.1000	0.00773	0.0100	-22.7*	20.0
Chloromethane	Ave	0.4523	0.4173	0.1000	0.00923	0.0100	-7.7	20.0
Vinyl chloride	Ave	0.4861	0.4052	0.1000	0.00834	0.0100	-16.6	20.0
Bromomethane	Ave	0.1863	0.2116	0.0500	0.0114	0.0100	13.6	20.0
Chloroethane	Ave	0.2585	0.2478	0.0500	0.00959	0.0100	-4.1	20.0
Dichlorofluoromethane	Ave	0.5528	0.5631		0.0102	0.0100	1.8	20.0
Trichlorofluoromethane	Ave	0.3720	0.5092	0.1000	0.0137	0.0100	36.9*	20.0
Ethyl ether	Ave	0.2825	0.2272		0.00804	0.0100	-19.6	20.0
Acrolein	Ave	0.0193	0.0154		0.0398	0.0500	-20.4*	20.0
1,1-Dichloroethene	Ave	0.3603	0.3403	0.1000	0.00945	0.0100	-5.5	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.2838	0.3137	0.0500	0.0111	0.0100	10.5	20.0
Acetone	Lin1		0.0627	0.0500	0.0150	0.0200	-25.1*	20.0
Iodomethane	Ave	0.5366	0.5399		0.0101	0.0100	0.6	20.0
Carbon disulfide	Ave	1.044	1.013	0.1000	0.00970	0.0100	-3.0	20.0
3-Chloro-1-propene	Ave	0.2103	0.1905		0.00905	0.0100	-9.5	20.0
Methyl acetate	Ave	0.1822	0.1496	0.1000	0.0411	0.0500	-17.9	20.0
Methylene Chloride	Lin1		0.4085	0.1000	0.0106	0.0100	5.7	20.0
tert-Butyl alcohol	Ave	0.0125	0.0097		0.0781	0.100	-21.9*	20.0
Acrylonitrile	Ave	0.0904	0.0855		0.0945	0.100	-5.5	20.0
Methyl tert-butyl ether	Ave	0.9021	0.6467	0.1000	0.00717	0.0100	-28.3*	20.0
trans-1,2-Dichloroethene	Ave	0.3793	0.3649	0.1000	0.00962	0.0100	-3.8	20.0
Hexane	Ave	0.0886	0.0786		0.00887	0.0100	-11.3	20.0
1,1-Dichloroethane	Ave	0.6525	0.5924	0.1000	0.00908	0.0100	-9.2	20.0
Vinyl acetate	Ave	0.3925	0.2532		0.00619	0.00960	-35.5*	20.0
2,2-Dichloropropane	Ave	0.3643	0.3084		0.00847	0.0100	-15.3	20.0
cis-1,2-Dichloroethene	Ave	0.3913	0.3625	0.1000	0.00927	0.0100	-7.3	20.0
2-Butanone (MEK)	Ave	0.0937	0.0824	0.0500	0.0176	0.0200	-12.0	20.0
Bromochloromethane	Ave	0.1765	0.1713		0.00971	0.0100	-2.9	20.0
Tetrahydrofuran	Lin1		0.0495		0.0149	0.0200	-25.5*	20.0
Chloroform	Ave	0.6369	0.5776	0.2000	0.00907	0.0100	-9.3	20.0
1,1,1-Trichloroethane	Ave	0.4902	0.4507	0.1000	0.00919	0.0100	-8.1	20.0
Cyclohexane	Ave	0.6425	0.6044	0.1000	0.00941	0.0100	-5.9	20.0
1,1-Dichloropropene	Ave	0.4767	0.4244		0.00890	0.0100	-11.0	20.0
Carbon tetrachloride	Ave	0.4135	0.3696	0.1000	0.00894	0.0100	-10.6	20.0
Isobutyl alcohol	Ave	0.0055	0.0044		0.200	0.250	-20.1*	20.0
Benzene	Ave	1.444	1.378	0.5000	0.00954	0.0100	-4.6	20.0
1,2-Dichloroethane	Ave	0.4849	0.4060	0.1000	0.00837	0.0100	-16.3	20.0
n-Heptane	Ave	0.0762	0.0746		0.00979	0.0100	-2.1	20.0
Trichloroethene	Ave	0.3819	0.3544	0.2000	0.00928	0.0100	-7.2	20.0
Methylcyclohexane	Ave	0.5760	0.5517	0.1000	0.00958	0.0100	-4.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab Sample ID: CCVIS 240-148401/2 Calibration Date: 09/24/2014 09:59

Instrument ID: A3UX15 Calib Start Date: 07/07/2014 13:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/07/2014 15:42

Lab File ID: UXC4514.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-Dichloropropane	Ave	0.3161	0.3094	0.1000	0.00979	0.0100	-2.1	20.0
Dibromomethane	Ave	0.1763	0.1661		0.00942	0.0100	-5.8	20.0
1,4-Dioxane	Qua		0.0021		0.177	0.200	-11.3	20.0
Bromodichloromethane	Ave	0.3853	0.3552	0.1000	0.00922	0.0100	-7.8	20.0
2-Chloroethyl vinyl ether	Ave	0.1400	0.1218		0.0174	0.0200	-13.0	20.0
cis-1,3-Dichloropropene	Ave	0.4119	0.3387	0.1500	0.00822	0.0100	-17.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2060	0.1450	0.0500	0.0141	0.0200	-29.6*	20.0
Toluene	Ave	2.064	2.111	0.4000	0.0102	0.0100	2.3	20.0
trans-1,3-Dichloropropene	Ave	0.4760	0.3500	0.1000	0.00735	0.0100	-26.5*	20.0
Ethyl methacrylate	Ave	0.3626	0.2783		0.00767	0.0100	-23.3*	20.0
1,1,2-Trichloroethane	Ave	0.3537	0.3321	0.1000	0.00939	0.0100	-6.1	20.0
Tetrachloroethene	Ave	0.4033	0.4198	0.2000	0.0104	0.0100	4.1	20.0
1,3-Dichloropropane	Ave	0.6186	0.5869		0.00949	0.0100	-5.1	20.0
2-Hexanone	Ave	0.1922	0.1223	0.0500	0.0127	0.0200	-36.4*	20.0
Chlorodibromomethane	Lin1		0.3002		0.00840	0.0100	-16.0	20.0
1,2-Dibromoethane	Ave	0.3220	0.2958		0.00919	0.0100	-8.1	20.0
Chlorobenzene	Ave	1.277	1.275	0.3000	0.00999	0.0100	-0.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4205	0.3800		0.00904	0.0100	-9.6	20.0
Ethylbenzene	Ave	0.6999	0.7220		0.0103	0.0100	3.2	20.0
m-Xylene & p-Xylene	Ave	1.729	1.702		0.00984	0.0100	-1.6	20.0
o-Xylene	Ave	0.8655	0.8872		0.0103	0.0100	2.5	20.0
Styrene	Ave	1.267	1.239	0.3000	0.00978	0.0100	-2.2	20.0
Bromoform	Lin1		0.1391	0.1000	0.00742	0.0100	-25.8*	20.0
Isopropylbenzene	Ave	2.228	2.280	0.1000	0.0102	0.0100	2.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6695	0.6424	0.3000	0.00960	0.0100	-4.0	20.0
Bromobenzene	Ave	0.9001	0.8810		0.00979	0.0100	-2.1	20.0
1,2,3-Trichloropropane	Ave	0.2403	0.2057		0.00856	0.0100	-14.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1721	0.1088		0.00632	0.0100	-36.8*	20.0
N-Propylbenzene	Ave	0.9794	1.027		0.0105	0.0100	4.9	20.0
2-Chlorotoluene	Ave	0.8760	0.8992		0.0103	0.0100	2.6	20.0
1,3,5-Trimethylbenzene	Ave	3.041	3.197		0.0105	0.0100	5.1	20.0
4-Chlorotoluene	Ave	3.065	2.873		0.00937	0.0100	-6.3	20.0
tert-Butylbenzene	Ave	2.565	2.666		0.0104	0.0100	3.9	20.0
1,2,4-Trimethylbenzene	Ave	3.219	3.296		0.0102	0.0100	2.4	20.0
sec-Butylbenzene	Ave	3.472	3.832		0.0110	0.0100	10.4	20.0
1,3-Dichlorobenzene	Ave	1.810	1.776	0.6000	0.00981	0.0100	-1.9	20.0
4-Isopropyltoluene	Ave	3.099	3.369		0.0109	0.0100	8.7	20.0
1,4-Dichlorobenzene	Ave	1.862	1.806	0.5000	0.00970	0.0100	-3.0	20.0
n-Butylbenzene	Ave	2.584	2.707		0.0105	0.0100	4.7	20.0
1,2-Dichlorobenzene	Ave	1.802	1.807	0.4000	0.0100	0.0100	0.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1189	0.0837	0.0500	0.00704	0.0100	-29.6*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab Sample ID: CCVIS 240-148401/2 Calibration Date: 09/24/2014 09:59

Instrument ID: A3UX15 Calib Start Date: 07/07/2014 13:51

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/07/2014 15:42

Lab File ID: UXC4514.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
1,2,4-Trichlorobenzene	Ave	1.193	1.127	0.2000	0.00945	0.0100	-5.5	20.0
Hexachlorobutadiene	Ave	0.4977	0.4929		0.00990	0.0100	-1.0	20.0
Naphthalene	Ave	2.712	2.069		0.00763	0.0100	-23.7*	20.0
1,2,3-Trichlorobenzene	Ave	1.101	1.010		0.00917	0.0100	-8.3	20.0
Dibromofluoromethane (Surr)	Ave	0.3110	0.2596		0.00743	0.00890	-16.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3968	0.2972		0.00667	0.00890	-25.1*	20.0
Toluene-d8 (Surr)	Ave	1.797	1.587		0.00786	0.00890	-11.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6374	0.4912		0.00686	0.00890	-22.9*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab Sample ID: CCV 240-148401/3 Calibration Date: 09/24/2014 10:45

Instrument ID: A3UX15 Calib Start Date: 07/07/2014 16:04

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/07/2014 17:57

Lab File ID: UXC4516.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
Acetonitrile	Qua		0.0231		0.0847	0.100	-15.3	20.0
Diisopropyl ether	Ave	0.3069	0.2958		0.00964	0.0100	-3.6	20.0
2-Chloro-1,3-butadiene	Ave	0.5599	0.5198		0.00928	0.0100	-7.2	20.0
Ethyl tert-butyl ether	Ave	0.9200	0.7317		0.00795	0.0100	-20.5*	20.0
Ethyl acetate	Ave	0.1787	0.0572		0.00640	0.0200	-68.0*	20.0
Propionitrile	Ave	0.0332	0.0298		0.0896	0.100	-10.4	20.0
Methacrylonitrile	Ave	0.1593	0.1437		0.0902	0.100	-9.8	20.0
Tert-amyl methyl ether	Ave	0.7360	0.5664		0.00770	0.0100	-23.0*	20.0
n-Butanol	Ave	0.0034	0.0020		0.145	0.250	-42.0*	20.0
Ethyl acrylate	Ave	0.2318	0.2003		0.00864	0.0100	-13.6	20.0
Methyl methacrylate	Ave	0.1954	0.1692		0.0173	0.0200	-13.4	20.0
2-Nitropropane	Ave	0.0333	0.0234		0.0140	0.0200	-29.8*	20.0
1-Chlorohexane	Ave	0.5046	0.4888		0.00969	0.0100	-3.1	20.0
Cyclohexanone	Ave	0.0150	0.0091		0.0603	0.100	-39.7*	20.0
1,2,3-Trimethylbenzene	Ave	3.177	3.587		0.0113	0.0100	12.9	20.0
1,3,5-Trichlorobenzene	Ave	1.278	1.428		0.0112	0.0100	11.7	20.0
2-Methylnaphthalene	Lin1		0.9507		0.0117	0.0200	-41.4*	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-148401/32

Matrix: Water | Lab File ID: UXC4520.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 12:16

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.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-148401/32

Matrix: Water | Lab File ID: UXC4520.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 12:16

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.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-148401/32

Matrix: Water Lab File ID: UXC4520.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 12:16

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.: 148401 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	83		74-120
1868-53-7	Dibromofluoromethane (Surr)	83		75-121
460-00-4	4-Bromofluorobenzene (Surr)	73		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-148401/4

Matrix: Water | Lab File ID: UXC4515.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 10:22

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.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	9.57		1.0	0.28
71-55-6	1,1,1-Trichloroethane	9.77		1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	10.6		1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	11.5		1.0	0.37
75-34-3	1,1-Dichloroethane	9.83		1.0	0.26
75-35-4	1,1-Dichloroethene	10.2		1.0	0.45
563-58-6	1,1-Dichloropropene	10.1		1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	8.08		1.0	0.37
96-18-4	1,2,3-Trichloropropane	9.62		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	9.10		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	10.6		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	7.51		2.0	0.82
95-50-1	1,2-Dichlorobenzene	10.4		1.0	0.17
107-06-2	1,2-Dichloroethane	8.81		1.0	0.20
78-87-5	1,2-Dichloropropane	10.2		1.0	0.22
541-73-1	1,3-Dichlorobenzene	10.4		1.0	0.17
142-28-9	1,3-Dichloropropane	9.80		1.0	0.18
106-46-7	1,4-Dichlorobenzene	10.5		1.0	0.16
594-20-7	2,2-Dichloropropane	8.53		1.0	0.26
78-93-3	2-Butanone (MEK)	17.4		10	4.1
110-75-8	2-Chloroethyl vinyl ether	10.2		10	1.2
95-49-8	2-Chlorotoluene	11.0		1.0	0.20
591-78-6	2-Hexanone	14.5		10	3.9
106-43-4	4-Chlorotoluene	10.1		1.0	0.22
99-87-6	4-Isopropyltoluene	11.1		1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	14.2		10	3.6
67-64-1	Acetone	14.7		10	3.4
71-43-2	Benzene	9.95		1.0	0.24
108-86-1	Bromobenzene	10.4		1.0	0.12
75-25-2	Bromoform	7.34		1.0	0.56
74-83-9	Bromomethane	15.2		1.0	0.63
75-15-0	Carbon disulfide	10.8		1.0	0.28
56-23-5	Carbon tetrachloride	9.48		1.0	0.17
108-90-7	Chlorobenzene	10.5		1.0	0.19
124-48-1	Chlorodibromomethane	8.65		1.0	0.43
75-00-3	Chloroethane	12.2		1.0	0.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-148401/4

Matrix: Water Lab File ID: UXC4515.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 10:22

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.: 148401 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	9.53		1.0	0.21
74-87-3	Chloromethane	11.3		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	10.1		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	9.05		1.0	0.46
74-95-3	Dibromomethane	9.81		1.0	0.17
74-97-5	Bromochloromethane	10.0		1.0	0.25
75-71-8	Dichlorodifluoromethane	9.78		1.0	0.50
75-27-4	Bromodichloromethane	9.28		1.0	0.15
75-65-0	tert-Butyl alcohol	54.4		50	8.7
100-41-4	Ethylbenzene	10.6		1.0	0.23
87-68-3	Hexachlorobutadiene	9.17		1.0	0.35
98-82-8	Isopropylbenzene	10.5		1.0	0.35
1634-04-4	Methyl tert-butyl ether	7.49		1.0	0.16
75-09-2	Methylene Chloride	11.3		1.0	0.28
179601-23-1	m-Xylene & p-Xylene	10.1		2.0	0.22
91-20-3	Naphthalene	7.11		1.0	0.45
104-51-8	n-Butylbenzene	10.7		1.0	0.22
103-65-1	N-Propylbenzene	11.2		1.0	0.40
95-47-6	o-Xylene	10.6		1.0	0.21
135-98-8	sec-Butylbenzene	11.3		1.0	0.48
100-42-5	Styrene	10.3		1.0	0.45
127-18-4	Tetrachloroethene	10.9		1.0	0.20
108-88-3	Toluene	10.8		1.0	0.22
156-60-5	trans-1,2-Dichloroethene	10.5		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	8.50		1.0	0.56
79-01-6	Trichloroethene	9.96		1.0	0.15
75-69-4	Trichlorofluoromethane	18.2		1.0	0.49
108-05-4	Vinyl acetate	4.74		2.0	0.41
75-01-4	Vinyl chloride	10.7		1.0	0.29
1330-20-7	Xylenes, Total	20.7		2.0	0.43
98-06-6	tert-Butylbenzene	11.1		1.0	0.41
106-93-4	1,2-Dibromoethane	9.43		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-148401/4

Matrix: Water Lab File ID: UXC4515.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 10:22

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.: 148401 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	90		74-120
1868-53-7	Dibromofluoromethane (Surr)	84		75-121
460-00-4	4-Bromofluorobenzene (Surr)	77		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	74		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-401-091914 MS | Lab Sample ID: 240-42186-7 MS

Matrix: Water | Lab File ID: UXC4541.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 20:12

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	10500		3300	930
71-55-6	1,1,1-Trichloroethane	12300		3300	730
79-34-5	1,1,2,2-Tetrachloroethane	15200		3300	730
76-13-1	1,1,2-Trichlorotrifluoroethane	17200		3300	1200
75-34-3	1,1-Dichloroethane	14200		3300	870
75-35-4	1,1-Dichloroethene	14900		3300	1500
563-58-6	1,1-Dichloropropene	14600		3300	730
87-61-6	1,2,3-Trichlorobenzene	13400		3300	1200
96-18-4	1,2,3-Trichloropropane	13500		3300	1000
526-73-8	1,2,3-Trimethylbenzene	1600	U	17000	1600
120-82-1	1,2,4-Trichlorobenzene	14600		3300	1100
95-63-6	1,2,4-Trimethylbenzene	14700		3300	1400
96-12-8	1,2-Dibromo-3-Chloropropane	9080		6700	2700
95-50-1	1,2-Dichlorobenzene	15700		3300	570
107-06-2	1,2-Dichloroethane	13300		3300	670
78-87-5	1,2-Dichloropropane	14500		3300	730
541-73-1	1,3-Dichlorobenzene	15700		3300	570
142-28-9	1,3-Dichloropropane	13900		3300	600
106-46-7	1,4-Dichlorobenzene	15200		3300	530
594-20-7	2,2-Dichloropropane	10400		3300	870
78-93-3	2-Butanone (MEK)	27600	J	33000	14000
110-75-8	2-Chloroethyl vinyl ether	14600	J	33000	3900
95-49-8	2-Chlorotoluene	16100		3300	670
591-78-6	2-Hexanone	18900	J	33000	13000
106-43-4	4-Chlorotoluene	14400		3300	730
99-87-6	4-Isopropyltoluene	15300		3300	1400
108-10-1	4-Methyl-2-pentanone (MIBK)	20800	J	33000	12000
67-64-1	Acetone	19800	J	33000	11000
71-43-2	Benzene	14200		3300	800
108-86-1	Bromobenzene	15500		3300	400
75-25-2	Bromoform	9180		3300	1900
74-83-9	Bromomethane	28900		3300	2100
75-15-0	Carbon disulfide	17000		3300	930
56-23-5	Carbon tetrachloride	11000		3300	570
108-90-7	Chlorobenzene	15000		3300	630
124-48-1	Chlorodibromomethane	10700		3300	1400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-401-091914 MS | Lab Sample ID: 240-42186-7 MS

Matrix: Water | Lab File ID: UXC4541.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 20:12

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	23900		3300	1100
67-66-3	Chloroform	13300		3300	700
74-87-3	Chloromethane	22000		3300	1500
156-59-2	cis-1,2-Dichloroethene	14100		3300	670
10061-01-5	cis-1,3-Dichloropropene	9530		3300	1500
74-95-3	Dibromomethane	14800		3300	570
74-97-5	Bromochloromethane	14800		3300	830
75-71-8	Dichlorodifluoromethane	17700		3300	1700
75-27-4	Bromodichloromethane	11700		3300	500
75-65-0	tert-Butyl alcohol	114000	J	170000	29000
100-41-4	Ethylbenzene	14500		3300	770
87-68-3	Hexachlorobutadiene	13400		3300	1200
108-20-3	Diisopropyl ether	630	U	33000	630
98-82-8	Isopropylbenzene	14300		3300	1200
1634-04-4	Methyl tert-butyl ether	10800		3300	530
75-09-2	Methylene Chloride	16900		3300	930
179601-23-1	m-Xylene & p-Xylene	14000		6700	730
91-20-3	Naphthalene	11100		3300	1500
104-51-8	n-Butylbenzene	15000		3300	730
103-65-1	N-Propylbenzene	15200		3300	1300
95-47-6	o-Xylene	14600		3300	700
135-98-8	sec-Butylbenzene	15900		3300	1600
100-42-5	Styrene	14000		3300	1500
994-05-8	Tert-amyl methyl ether	530	U	17000	530
637-92-3	Ethyl tert-butyl ether	670	U	17000	670
127-18-4	Tetrachloroethene	15300		3300	670
108-88-3	Toluene	15000		3300	730
156-60-5	trans-1,2-Dichloroethene	15200		3300	870
10061-02-6	trans-1,3-Dichloropropene	7980		3300	1900
79-01-6	Trichloroethene	96700		3300	500
75-69-4	Trichlorofluoromethane	35100		3300	1600
108-05-4	Vinyl acetate	6970		6700	1400
75-01-4	Vinyl chloride	21400		3300	970
1330-20-7	Xylenes, Total	28600		6700	1400
98-06-6	tert-Butylbenzene	15000		3300	1400
106-93-4	1,2-Dibromoethane	13300		3300	630

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-401-091914 MS Lab Sample ID: 240-42186-7 MS

Matrix: Water Lab File ID: UXC4541.D

Analysis Method: 8260C Date Collected: 09/19/2014 12:15

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 20:12

Soil Aliquot Vol: Dilution Factor: 3333.33

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 148401 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		74-120
1868-53-7	Dibromofluoromethane (Surr)	84		75-121
460-00-4	4-Bromofluorobenzene (Surr)	79		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	75		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-401-091914 MSD | Lab Sample ID: 240-42186-7 MSD

Matrix: Water | Lab File ID: UXC4542.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 20:34

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	18200		3300	930
71-55-6	1,1,1-Trichloroethane	21400		3300	730
79-34-5	1,1,2,2-Tetrachloroethane	23700		3300	730
76-13-1	1,1,2-Trichlorotrifluoroethane	27000		3300	1200
75-34-3	1,1-Dichloroethane	23000		3300	870
75-35-4	1,1-Dichloroethene	24400		3300	1500
563-58-6	1,1-Dichloropropene	23600		3300	730
87-61-6	1,2,3-Trichlorobenzene	23700		3300	1200
96-18-4	1,2,3-Trichloropropane	21700		3300	1000
526-73-8	1,2,3-Trimethylbenzene	1600	U	17000	1600
120-82-1	1,2,4-Trichlorobenzene	24300		3300	1100
95-63-6	1,2,4-Trimethylbenzene	24400		3300	1400
96-12-8	1,2-Dibromo-3-Chloropropane	15000		6700	2700
95-50-1	1,2-Dichlorobenzene	25300		3300	570
107-06-2	1,2-Dichloroethane	21000		3300	670
78-87-5	1,2-Dichloropropane	23900		3300	730
541-73-1	1,3-Dichlorobenzene	24000		3300	570
142-28-9	1,3-Dichloropropane	22500		3300	600
106-46-7	1,4-Dichlorobenzene	23900		3300	530
594-20-7	2,2-Dichloropropane	17700		3300	870
78-93-3	2-Butanone (MEK)	43400		33000	14000
110-75-8	2-Chloroethyl vinyl ether	24200	J	33000	3900
95-49-8	2-Chlorotoluene	25300		3300	670
591-78-6	2-Hexanone	32200	J	33000	13000
106-43-4	4-Chlorotoluene	23000		3300	730
99-87-6	4-Isopropyltoluene	25600		3300	1400
108-10-1	4-Methyl-2-pentanone (MIBK)	35500		33000	12000
67-64-1	Acetone	39500		33000	11000
71-43-2	Benzene	23400		3300	800
108-86-1	Bromobenzene	24200		3300	400
75-25-2	Bromoform	14200		3300	1900
74-83-9	Bromomethane	44000		3300	2100
75-15-0	Carbon disulfide	27000		3300	930
56-23-5	Carbon tetrachloride	19200		3300	570
108-90-7	Chlorobenzene	24100		3300	630
124-48-1	Chlorodibromomethane	17200		3300	1400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-401-091914 MSD | Lab Sample ID: 240-42186-7 MSD

Matrix: Water | Lab File ID: UXC4542.D

Analysis Method: 8260C | Date Collected: 09/19/2014 12:15

Sample wt/vol: 5(mL) | Date Analyzed: 09/24/2014 20:34

Soil Aliquot Vol: | Dilution Factor: 3333.33

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

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

Analysis Batch No.: 148401 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	36500		3300	1100
67-66-3	Chloroform	22700		3300	700
74-87-3	Chloromethane	33200		3300	1500
156-59-2	cis-1,2-Dichloroethene	23500		3300	670
10061-01-5	cis-1,3-Dichloropropene	16800		3300	1500
74-95-3	Dibromomethane	24000		3300	570
74-97-5	Bromochloromethane	23300		3300	830
75-71-8	Dichlorodifluoromethane	28200		3300	1700
75-27-4	Bromodichloromethane	20300		3300	500
75-65-0	tert-Butyl alcohol	198000		170000	29000
100-41-4	Ethylbenzene	23800		3300	770
87-68-3	Hexachlorobutadiene	24100		3300	1200
108-20-3	Diisopropyl ether	630	U	33000	630
98-82-8	Isopropylbenzene	23800		3300	1200
1634-04-4	Methyl tert-butyl ether	17700		3300	530
75-09-2	Methylene Chloride	28700		3300	930
179601-23-1	m-Xylene & p-Xylene	22700		6700	730
91-20-3	Naphthalene	20500		3300	1500
104-51-8	n-Butylbenzene	24700		3300	730
103-65-1	N-Propylbenzene	25000		3300	1300
95-47-6	o-Xylene	24300		3300	700
135-98-8	sec-Butylbenzene	26100		3300	1600
100-42-5	Styrene	23000		3300	1500
994-05-8	Tert-amyl methyl ether	530	U	17000	530
637-92-3	Ethyl tert-butyl ether	670	U	17000	670
127-18-4	Tetrachloroethene	25400		3300	670
108-88-3	Toluene	24400		3300	730
156-60-5	trans-1,2-Dichloroethene	25400		3300	870
10061-02-6	trans-1,3-Dichloropropene	14700		3300	1900
79-01-6	Trichloroethene	101000		3300	500
75-69-4	Trichlorofluoromethane	54500		3300	1600
108-05-4	Vinyl acetate	10100		6700	1400
75-01-4	Vinyl chloride	32200		3300	970
1330-20-7	Xylenes, Total	47000		6700	1400
98-06-6	tert-Butylbenzene	24600		3300	1400
106-93-4	1,2-Dibromoethane	21400		3300	630

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Client Sample ID: WSP-401-091914 MSD Lab Sample ID: 240-42186-7 MSD

Matrix: Water Lab File ID: UXC4542.D

Analysis Method: 8260C Date Collected: 09/19/2014 12:15

Sample wt/vol: 5(mL) Date Analyzed: 09/24/2014 20:34

Soil Aliquot Vol: Dilution Factor: 3333.33

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 148401 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		74-120
1868-53-7	Dibromofluoromethane (Surr)	84		75-121
460-00-4	4-Bromofluorobenzene (Surr)	79		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	76		63-129

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: A3UX15 Start Date: 07/07/2014 13:01

Analysis Batch Number: 137439 End Date: 07/07/2014 18:42

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-137439/1		07/07/2014 13:01	1	BFB440.D	DB-624 0.18(mm)
STD8260 240-137439/2 IC		07/07/2014 13:51	1	UXC2883.D	DB-624 0.18(mm)
STD8260 240-137439/3 IC		07/07/2014 14:13	1	UXC2884.D	DB-624 0.18(mm)
STD8260 240-137439/4 ICIS		07/07/2014 14:35	1	UXC2885.D	DB-624 0.18(mm)
STD8260 240-137439/5 IC		07/07/2014 14:58	1	UXC2886.D	DB-624 0.18(mm)
STD8260 240-137439/6 IC		07/07/2014 15:20	1	UXC2887.D	DB-624 0.18(mm)
STD8260 240-137439/7 IC		07/07/2014 15:42	1	UXC2888.D	DB-624 0.18(mm)
STD 240-137439/8 IC		07/07/2014 16:04	1	UXC2889.D	DB-624 0.18(mm)
STD 240-137439/9 IC		07/07/2014 16:27	1	UXC2890.D	DB-624 0.18(mm)
STD 240-137439/10 IC		07/07/2014 16:49	1	UXC2891.D	DB-624 0.18(mm)
STD 240-137439/11 IC		07/07/2014 17:12	1	UXC2892.D	DB-624 0.18(mm)
STD 240-137439/12 IC		07/07/2014 17:35	1	UXC2893.D	DB-624 0.18(mm)
STD 240-137439/13 IC		07/07/2014 17:57	1	UXC2894.D	DB-624 0.18(mm)
ICV 240-137439/14		07/07/2014 18:20	1	UXC2895.D	DB-624 0.18(mm)
ICV 240-137439/15		07/07/2014 18:42	1	UXC2896.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: A3UX15 Start Date: 09/24/2014 09:27

Analysis Batch Number: 148401 End Date: 09/24/2014 21:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-148401/1		09/24/2014 09:27	1	BFB490.D	DB-624 0.18(mm)
CCVIS 240-148401/2		09/24/2014 09:59	1	UXC4514.D	DB-624 0.18(mm)
LCS 240-148401/4		09/24/2014 10:22	1	UXC4515.D	DB-624 0.18(mm)
CCV 240-148401/3		09/24/2014 10:45	1	UXC4516.D	DB-624 0.18(mm)
ZZZZZ		09/24/2014 11:08	1		DB-624 0.18(mm)
ZZZZZ		09/24/2014 11:31	1		DB-624 0.18(mm)
MB 240-148401/32		09/24/2014 12:16	1	UXC4520.D	DB-624 0.18(mm)
240-42186-1	WSP-1-091914	09/24/2014 13:07	3333.33	UXC4522.D	DB-624 0.18(mm)
ZZZZZ		09/24/2014 14:16	100		DB-624 0.18(mm)
240-42186-4	WSP-101-091914	09/24/2014 14:38	3333.33	UXC4526.D	DB-624 0.18(mm)
240-42186-5	WSP-201-091914	09/24/2014 15:01	3333.33	UXC4527.D	DB-624 0.18(mm)
240-42186-6	WSP-301-091914	09/24/2014 15:23	3333.33	UXC4528.D	DB-624 0.18(mm)
240-42186-3	WSP-3-091914	09/24/2014 15:45	1	UXC4529.D	DB-624 0.18(mm)
ZZZZZ		09/24/2014 16:07	1		DB-624 0.18(mm)
ZZZZZ		09/24/2014 16:30	1		DB-624 0.18(mm)
ZZZZZ		09/24/2014 16:52	4		DB-624 0.18(mm)
ZZZZZ		09/24/2014 17:14	1		DB-624 0.18(mm)
ZZZZZ		09/24/2014 17:36	1		DB-624 0.18(mm)
ZZZZZ		09/24/2014 17:59	1		DB-624 0.18(mm)
ZZZZZ		09/24/2014 18:21	1		DB-624 0.18(mm)
ZZZZZ		09/24/2014 18:43	1		DB-624 0.18(mm)
ZZZZZ		09/24/2014 19:05	1		DB-624 0.18(mm)
ZZZZZ		09/24/2014 19:50	1		DB-624 0.18(mm)
240-42186-7 MS	WSP-401-091914 MS	09/24/2014 20:12	3333.33	UXC4541.D	DB-624 0.18(mm)
240-42186-7 MSD	WSP-401-091914 MSD	09/24/2014 20:34	3333.33	UXC4542.D	DB-624 0.18(mm)
240-42186-7	WSP-401-091914	09/24/2014 20:57	3333.33	UXC4543.D	DB-624 0.18(mm)
240-42186-2	WSP-2-091914	09/24/2014 21:19	1	UXC4544.D	DB-624 0.18(mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-42186-1

SDG No.:

Project: LM MRC Block E MPE System O&M

Client Sample ID	Lab Sample ID
WSP-1-091914	240-42186-1
WSP-2-091914	240-42186-2
WSP-4-091914	240-42186-8

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WSP-1-091914 Lab Sample ID: 240-42186-1

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG ID.:

Matrix: Water Date Sampled: 09/19/2014 11:40

Reporting Basis: WET Date Received: 09/20/2014 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.18	0.20	0.090	ug/L	J		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: WSP-1-091914 Lab Sample ID: 240-42186-1

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG ID.:

Matrix: Water Date Sampled: 09/19/2014 11:40

Reporting Basis: WET Date Received: 09/20/2014 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.92	10	0.92	ug/L	U		1	6010C
7440-43-9	Cadmium	0.14	5.0	0.14	ug/L	U		1	6010C
7440-47-3	Chromium	0.55	10	0.55	ug/L	U		1	6010C
7440-50-8	Copper	32	25	1.9	ug/L			1	6010C
7440-02-0	Nickel	110	40	0.76	ug/L			1	6010C
7439-92-1	Lead	3.9	10	1.9	ug/L	J		1	6010C
7440-66-6	Zinc	200	50	9.6	ug/L		B	1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WSP-2-091914 Lab Sample ID: 240-42186-2

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG ID.:

Matrix: Water Date Sampled: 09/19/2014 11:45

Reporting Basis: WET Date Received: 09/20/2014 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.090	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: WSP-2-091914 Lab Sample ID: 240-42186-2

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG ID.:

Matrix: Water Date Sampled: 09/19/2014 11:45

Reporting Basis: WET Date Received: 09/20/2014 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.92	10	0.92	ug/L	U		1	6010C
7440-43-9	Cadmium	0.14	5.0	0.14	ug/L	U		1	6010C
7440-47-3	Chromium	0.55	10	0.55	ug/L	U		1	6010C
7440-50-8	Copper	14	25	1.9	ug/L	J		1	6010C
7440-02-0	Nickel	74	40	0.76	ug/L			1	6010C
7439-92-1	Lead	4.6	10	1.9	ug/L	J		1	6010C
7440-66-6	Zinc	2400	50	9.6	ug/L		B	1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WSP-4-091914 Lab Sample ID: 240-42186-8

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG ID.:

Matrix: Water Date Sampled: 09/19/2014 11:55

Reporting Basis: WET Date Received: 09/20/2014 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.090	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: WSP-4-091914 Lab Sample ID: 240-42186-8

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG ID.:

Matrix: Water Date Sampled: 09/19/2014 11:55

Reporting Basis: WET Date Received: 09/20/2014 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.92	10	0.92	ug/L	U		1	6010C
7440-43-9	Cadmium	0.14	5.0	0.14	ug/L	U		1	6010C
7440-47-3	Chromium	0.55	10	0.55	ug/L	U		1	6010C
7440-50-8	Copper	9.5	25	1.9	ug/L	J		1	6010C
7440-02-0	Nickel	1.0	40	0.76	ug/L	J		1	6010C
7439-92-1	Lead	1.9	10	1.9	ug/L	U		1	6010C
7440-66-6	Zinc	120	50	9.6	ug/L		B	1	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

ICV Source: MT6500ICV_00021 Concentration Units: ug/L

CCV Source: MTICPCCV_00030

Analyte	ICV 240-148259/4 09/23/2014 10:29				CCV 240-148259/28 09/23/2014 12:07				CCV 240-148259/40 09/23/2014 12:55			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	380		375	101	508		500	102	511		500	102
Arsenic	388		375	104	508		500	102	509		500	102
Barium	1510		1500	101	1960		2000	98	1980		2000	99
Beryllium	1540		1500	103	1990		2000	100	2030		2000	102
Cadmium	383		375	102	500		500	100	502		500	100
Chromium	1510		1500	100	1950		2000	98	1960		2000	98
Copper	1510		1500	101	2000		2000	100	2000		2000	100
Lead	380		375	101	487		500	97	490		500	98
Manganese	1550		1500	103	2000		2000	100	2020		2000	101
Nickel	1520		1500	101	2000		2000	100	2000		2000	100
Silver	764		750	102	1010		1000	101	1020		1000	102
Zinc	1580		1500	105	2020		2000	101	2020		2000	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 Canton Job No.: 240-42186-1

SDG No.:

ICV Source: MTHgStd_00011 Concentration Units: ug/L

CCV Source: MTHGCALW_00727

Analyte	ICV 240-148101/7-A 09/23/2014 07:59				CCVL 240-148101/10-A 09/23/2014 08:12				CCV 240-148101/11-A 09/23/2014 14:53			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.53		2.50	101	5.14		5.00	103	5.48		5.00	110

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

ICV Source: MTHgStd_00011 Concentration Units: ug/L

CCV Source: MTHGCALW_00727

Analyte	CCV 240-148101/11-A 09/23/2014 15:15				CCV 240-148101/11-A 09/23/2014 15:40							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.23		5.00	105	5.18		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.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Method: 6010C Instrument ID: I9

Lab Sample ID: CRI 240-148259/30 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00022

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	10.0	10.4		104	70-130
Arsenic	15.0	18.9		126	70-130
Barium	200	202		101	70-130
Beryllium	5.00	5.13		103	70-130
Cadmium	5.00	5.01		100	70-130
Chromium	10.0	11.0		110	70-130
Copper	20.0	22.1	J	110	70-130
Manganese	15.0	15.7		105	70-130
Nickel	40.0	41.4		104	70-130
Lead	10.0	8.61	J	86	70-130
Zinc	50.0	51.0		102	70-130
Antimony	20.0	19.8	J	99	70-130

Lab Sample ID: CRI 240-148259/42 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00022

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	10.0	10.5		105	70-130
Arsenic	15.0	15.9		106	70-130
Barium	200	202		101	70-130
Beryllium	5.00	5.14		103	70-130
Cadmium	5.00	5.04		101	70-130
Chromium	10.0	10.8		108	70-130
Copper	20.0	23.2	J	116	70-130
Manganese	15.0	15.8		105	70-130
Nickel	40.0	41.5		104	70-130
Lead	10.0	9.64	J	96	70-130
Zinc	50.0	51.0		102	70-130
Antimony	20.0	21.3		107	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Method: 7470A Instrument ID: H1

Lab Sample ID: CRA 240-148101/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00727

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.166	J	83	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-148259/5 09/23/2014 10:32		CCB 240-148259/29 09/23/2014 12:11		CCB 240-148259/41 09/23/2014 12:59			
		Found	C	Found	C	Found	C	Found	C
Antimony	20	2.4	U	2.4	U	2.4	U		
Arsenic	15	2.9	U	2.9	U	2.9	U		
Barium	200	1.0	U	1.0	U	1.0	U		
Beryllium	5.0	0.13	U	0.13	U	0.13	U		
Cadmium	5.0	0.14	U	0.14	U	0.14	U		
Chromium	10	0.55	U	0.55	U	0.55	U		
Copper	25	1.9	U	1.9	U	1.9	U		
Lead	10	1.9	U	1.9	U	1.9	U		
Manganese	15	0.46	U	0.46	U	0.46	U		
Nickel	40	0.76	U	0.76	U	0.76	U		
Silver	10	0.92	U	0.92	U	0.92	U		
Zinc	50	9.6	U	9.6	U	9.6	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-148101/8-A 09/23/2014 08:01		CCB 240-148101/12-A 09/23/2014 14:55		CCB 240-148101/12-A 09/23/2014 15:17		CCB 240-148101/12-A 09/23/2014 15:41	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.090	U	0.090	U	0.090	U	0.090	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-147984/1-A

Instrument Code: I9 Batch No.: 148259

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.92	U		6010C
7440-38-2	Arsenic	2.9	U		6010C
7440-39-3	Barium	1.0	U		6010C
7440-41-7	Beryllium	0.13	U		6010C
7440-43-9	Cadmium	0.14	U		6010C
7440-47-3	Chromium	0.55	U		6010C
7440-50-8	Copper	1.9	U		6010C
7439-96-5	Manganese	0.479	J		6010C
7440-02-0	Nickel	0.76	U		6010C
7439-92-1	Lead	1.9	U		6010C
7440-66-6	Zinc	9.64	J		6010C
7440-36-0	Antimony	2.4	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-147988/1-A

Instrument Code: H1 Batch No.: 148422

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.090	U		7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Lab Sample ID: ICSA 240-148259/8 Instrument ID: I9

Lab File ID: I9092314A.asc ICS Source: MTTRICSAW_00023

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**3.85**	
Arsenic		**-5.43**	
Barium		**0.313**	
Beryllium		**-0.399**	
Cadmium		**0.208**	
Chromium		**3.18**	
Copper		**0.473**	
Lead		**-1.42**	
Manganese		**2.39**	
Nickel		**6.60**	
Silver		**0.169**	
Zinc		**4.11**	
Aluminum	*500000*	*506040*	*101*
Boron		*-3.23*	
Calcium	*500000*	*489620*	*98*
Cobalt		*-1.64*	
Iron	*200000*	*191850*	*96*
Lithium		*-19.1*	
Magnesium	*500000*	*510690*	*102*
Molybdenum		*-2.72*	
Potassium		*146*	
Selenium		*0.403*	
Silicon		*3.59*	
Sodium		*59.4*	
Strontium		*15.3*	
Thallium		*-1.90*	
Tin		*0.135*	
Titanium		*-2.28*	
Vanadium		*-4.05*	

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 Canton Job No.: 240-42186-1

SDG No.:

Lab Sample ID: ICSAB 240-148259/9 Instrument ID: I9

Lab File ID: I9092314A.asc ICS Source: MTICPICSABW_00005

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Antimony	**1000**	**1021**	**102**
Arsenic	**1000**	**988**	**99**
Barium	**500**	**496**	**99**
Beryllium	**500**	**487**	**97**
Cadmium	**1000**	**1021**	**102**
Chromium	**500**	**492**	**98**
Copper	**500**	**529**	**106**
Lead	**1000**	**912**	**91**
Manganese	**500**	**495**	**99**
Nickel	**1000**	**982**	**98**
Silver	**1000**	**1082**	**108**
Zinc	**1000**	**1004**	**100**
Aluminum	*500000*	*503640*	*101*
Boron	*500*	*510*	*102*
Calcium	*500000*	*483880*	*97*
Cobalt	*500*	*491*	*98*
Iron	*200000*	*190840*	*95*
Lithium	*500*	*498*	*100*
Magnesium	*500000*	*506280*	*101*
Molybdenum	*1000*	*960*	*96*
Potassium	*10000*	*10470*	*105*
Selenium	*1000*	*1006*	*101*
Silicon	*10000*	*9970*	*100*
Sodium	*10000*	*10486*	*105*
Strontium	*1500*	*1462*	*97*
Thallium	*1000*	*966*	*97*
Tin	*500*	*513*	*103*
Titanium	*500*	*512*	*102*
Vanadium	*500*	*488*	*98*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 240-42127-A-1-E MS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	1.13		0.090	U	1.00	113	69-134		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 240-42127-A-1-F MSD

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	1.20		1.00	120	69-134	6	20		7470A

SDR = Sample Duplicate Result

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

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-147984/2-A

Lab Name: TestAmerica Canton Job No.: 240-42186-1

Sample Matrix: Water LCS Source: MTAGSPIKEW_00042

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Silver	50.0	49.9		100	80	120		6010C
Arsenic	2000	2000		100	80	120		6010C
Barium	2000	1910		96	80	120		6010C
Beryllium	50.0	49.5		99	80	120		6010C
Cadmium	50.0	50.3		101	80	120		6010C
Chromium	200	194		97	80	120		6010C
Copper	250	245		98	80	120		6010C
Manganese	500	495		99	80	120		6010C
Nickel	500	497		99	80	120		6010C
Lead	500	487		97	80	120		6010C
Zinc	500	514		103	80	120		6010C
Antimony	500	510		102	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-147988/2-A

Lab Name: TestAmerica Canton Job No.: 240-42186-1

Sample Matrix: Water LCS Source: MTHGCALW_00727

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	5.75		115	81	123		7470A

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

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-42186-1

SDG Number:

Matrix: Water Instrument ID: I9

Method: 6010C MDL Date: 09/09/2014 14:52

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Cadmium	226.502	5	0.14
Chromium	267.716	10	0.55
Copper	324.753	25	1.9
Lead	220.353	10	1.9
Nickel	231.604	40	0.76
Silver	328.068	10	0.92
Zinc	213.856	50	9.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-42186-1

SDG Number:

Matrix: Water Instrument ID: I9

Method: 6010C XMDL Date: 09/09/2014 14:52

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Cadmium	226.502	5	0.14
Chromium	267.716	10	0.55
Copper	324.753	25	1.9
Lead	220.353	10	1.9
Nickel	231.604	40	0.76
Silver	328.068	10	0.92
Zinc	213.856	50	9.6

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42186-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A MDL Date: 09/17/2014 14:07

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury	253.7	0.2	0.09

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42186-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A XMDL Date: 09/17/2014 14:07

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.09

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42186-1

SDG No.:

ICP-AES Instrument ID: I9 Date: 03/26/2014

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	Tl	V
Aluminum										0.025824					0.030943
Antimony		-0.000069			-0.000614			-0.000030							0.002351
Arsenic		0.000028			-0.000174	0.000536			-0.000355	0.001157					
Barium															
Beryllium															0.000470
Boron															
Cadmium			0.005676					-0.000001							
Calcium															
Chromium															
Cobalt													0.002095		
Copper				0.000029	0.000140			0.000007							
Iron															
Lead		-0.000114					0.000068	0.000044			0.000321	0.000060			
Lithium				0.000084											
Magnesium															
Manganese															
Molybdenum															
Nickel					0.000518			0.000077							
Potassium															
Selenium									0.000338						
Silver															
Sodium															
Strontium															
Thallium					0.001471				0.001238				-0.000905		-0.006245
Tin															
Titanium															
Vanadium								0.000020							
Zinc						-0.000592									

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-42186-1

SDG No.:

Instrument ID: I9 Date: 04/01/2014 10:54

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		2000	6010C
Cadmium		2000	6010C
Chromium		20000	6010C
Copper		30000	6010C
Nickel		30000	6010C
Lead		15000	6010C
Zinc		10000	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-42186-1

SDG No.:

Instrument ID: H1 Date: 12/10/2013 15:54

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-147984/1-A	09/22/2014 09:43	147984		50	50
LCS 240-147984/2-A	09/22/2014 09:43	147984		50	50
240-42186-1	09/22/2014 09:43	147984		50	50
240-42186-2	09/22/2014 09:43	147984		50	50
240-42186-8	09/22/2014 09:43	147984		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-147988/1-A	09/22/2014 14:15	147988		50	50
LCS 240-147988/2-A	09/22/2014 14:15	147988		50	50
240-42127-A-1-E MS	09/22/2014 14:15	147988		50	50
240-42127-A-1-F MSD	09/22/2014 14:15	147988		50	50
240-42186-1	09/22/2014 14:15	147988		50	50
240-42186-2	09/22/2014 14:15	147988		50	50
240-42186-8	09/22/2014 14:15	147988		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 09/23/2014 10:16 End Date: 09/24/2014 01:45

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Cd	Cr	Cu	Mn	Ni	Pb	Sb	Zn								
ICIS 240-148259/1	1		10:16	X	X	X	X	X	X	X	X	X	X	X	X								
CALSTD 240-148259/2 IC			10:21	X	X	X	X	X	X	X	X	X	X	X	X								
CALSTD 240-148259/3 IC			10:25	X	X	X	X	X	X	X	X	X	X	X	X								
ICV 240-148259/4	1		10:29	X	X	X	X	X	X	X	X	X	X	X	X								
ICB 240-148259/5	1		10:32	X				X	X	X		X	X		X								
CRI 240-148259/6			10:37																				
ZZZZZZ			10:41																				
ICSA 240-148259/8	1		10:45	X				X	X	X		X	X		X								
ICSAB 240-148259/9	1		10:49	X	X	X	X	X	X	X	X	X	X	X	X								
CCV 240-148259/10			10:53																				
CCB 240-148259/11			10:56																				
ZZZZZZ			11:01																				
ZZZZZZ			11:05																				
ZZZZZZ			11:09																				
ZZZZZZ			11:13																				
ZZZZZZ			11:17																				
ZZZZZZ			11:21																				
CCV 240-148259/18			11:26																				
CCB 240-148259/19			11:30																				
ZZZZZZ			11:34																				
ZZZZZZ			11:39																				
ZZZZZZ			11:42																				
ZZZZZZ			11:46																				
ZZZZZZ			11:51																				
ZZZZZZ			11:55																				
ZZZZZZ			11:59																				
ZZZZZZ			12:03																				
CCV 240-148259/28	1		12:07	X	X	X	X	X	X	X	X	X	X	X	X								
CCB 240-148259/29	1		12:11	X				X	X	X		X	X		X								
CRI 240-148259/30	1		12:15	X	X	X	X	X	X	X	X	X	X	X	X								
ZZZZZZ			12:19																				
ZZZZZZ			12:23																				
ZZZZZZ			12:27																				
ZZZZZZ			12:31																				
MB 240-147984/1-A	1	R	12:35	X				X	X	X		X	X		X								
LCS 240-147984/2-A	1	R	12:40	X	X	X	X	X	X	X	X	X	X	X	X								
240-42186-1	1	R	12:43	X				X	X	X		X	X		X								
240-42186-2	1	R	12:47	X				X	X	X		X	X		X								
240-42186-8	1	R	12:51	X				X	X	X		X	X		X								
CCV 240-148259/40	1		12:55	X	X	X	X	X	X	X	X	X	X	X	X								
CCB 240-148259/41	1		12:59	X				X	X	X		X	X		X								

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 09/23/2014 10:16 End Date: 09/24/2014 01:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Cd	Cr	Cu	Mn	Ni	Pb	Sb	Zn								
CRI 240-148259/42	1		13:04	X	X	X	X	X	X	X	X	X	X	X	X								
ZZZZZZ			13:08																				
ZZZZZZ			13:12																				
ZZZZZZ			13:16																				
CRI 240-148259/46			13:20																				
ZZZZZZ			13:24																				
ZZZZZZ			13:28																				
ZZZZZZ			13:32																				
ZZZZZZ			13:36																				
ZZZZZZ			13:40																				
CCV 240-148259/52			13:44																				
CCB 240-148259/53			13:48																				
ZZZZZZ			13:52																				
ZZZZZZ			13:56																				
ZZZZZZ			14:00																				
ZZZZZZ			14:05																				
ZZZZZZ			14:09																				
ZZZZZZ			14:13																				
ZZZZZZ			14:17																				
ZZZZZZ			14:21																				
ZZZZZZ			14:26																				
ZZZZZZ			14:30																				
CCV 240-148259/64			14:34																				
CCB 240-148259/65			14:38																				
ZZZZZZ			14:42																				
ZZZZZZ			14:46																				
ZZZZZZ			14:50																				
ZZZZZZ			14:54																				
ZZZZZZ			14:58																				
ZZZZZZ			15:02																				
ZZZZZZ			15:06																				
ZZZZZZ			15:10																				
ZZZZZZ			15:14																				
ZZZZZZ			15:18																				
CCV 240-148259/76			15:22																				
CCB 240-148259/77			15:26																				
ZZZZZZ			15:30																				
ZZZZZZ			15:35																				
ZZZZZZ			15:39																				
ZZZZZZ			15:43																				
ZZZZZZ			15:47																				
ZZZZZZ			15:51																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 09/23/2014 10:16 End Date: 09/24/2014 01:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Cd	Cr	Cu	Mn	Ni	Pb	Sb	Zn								
ZZZZZZ			15:55																				
ZZZZZZ			16:00																				
ZZZZZZ			16:04																				
ZZZZZZ			16:08																				
CCV 240-148259/88			16:12																				
CCB 240-148259/89			16:16																				
ZZZZZZ			16:20																				
ZZZZZZ			16:24																				
ZZZZZZ			16:28																				
ZZZZZZ			16:32																				
ZZZZZZ			16:37																				
ZZZZZZ			16:41																				
ZZZZZZ			16:45																				
ZZZZZZ			16:49																				
ZZZZZZ			16:53																				
ZZZZZZ			16:57																				
CCV 240-148259/100			17:01																				
CCB 240-148259/101			17:05																				
ZZZZZZ			17:09																				
ZZZZZZ			17:13																				
ZZZZZZ			17:17																				
ZZZZZZ			17:21																				
ZZZZZZ			17:25																				
ZZZZZZ			17:29																				
ZZZZZZ			17:33																				
ZZZZZZ			17:37																				
ZZZZZZ			17:41																				
ZZZZZZ			17:46																				
CCV 240-148259/112			17:49																				
CCB 240-148259/113			17:53																				
ZZZZZZ			17:57																				
ZZZZZZ			18:02																				
ZZZZZZ			18:06																				
ZZZZZZ			18:10																				
ZZZZZZ			18:14																				
ZZZZZZ			18:18																				
ZZZZZZ			18:22																				
ZZZZZZ			18:27																				
ZZZZZZ			18:31																				
ZZZZZZ			18:35																				
CCV 240-148259/124			18:39																				
CCB 240-148259/125			18:43																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 09/23/2014 10:16 End Date: 09/24/2014 01:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Cd	Cr	Cu	Mn	Ni	Pb	Sb	Zn								
ZZZZZZ			18:47																				
ZZZZZZ			18:52																				
ZZZZZZ			18:56																				
ZZZZZZ			19:00																				
ZZZZZZ			19:04																				
ZZZZZZ			19:08																				
ZZZZZZ			19:13																				
ZZZZZZ			19:17																				
ZZZZZZ			19:21																				
ZZZZZZ			19:25																				
CCV 240-148259/136			19:29																				
CCB 240-148259/137			19:33																				
ZZZZZZ			19:37																				
ZZZZZZ			19:42																				
ZZZZZZ			19:46																				
ZZZZZZ			19:50																				
ZZZZZZ			19:54																				
ZZZZZZ			19:58																				
ZZZZZZ			20:02																				
ZZZZZZ			20:07																				
ZZZZZZ			20:11																				
ZZZZZZ			20:15																				
CCV 240-148259/148			20:19																				
CCB 240-148259/149			20:22																				
ZZZZZZ			20:27																				
ZZZZZZ			20:31																				
ZZZZZZ			20:34																				
ZZZZZZ			20:38																				
ZZZZZZ			20:42																				
ZZZZZZ			20:46																				
ZZZZZZ			20:50																				
ZZZZZZ			20:54																				
ZZZZZZ			20:57																				
ZZZZZZ			21:01																				
CCV 240-148259/160			21:06																				
CCB 240-148259/161			21:09																				
ZZZZZZ			21:14																				
ZZZZZZ			21:18																				
ZZZZZZ			21:22																				
ZZZZZZ			21:26																				
ZZZZZZ			21:30																				
ZZZZZZ			21:34																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 09/23/2014 10:16 End Date: 09/24/2014 01:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Cd	Cr	Cu	Mn	Ni	Pb	Sb	Zn								
ZZZZZZ			21:38																				
ZZZZZZ			21:42																				
ZZZZZZ			21:47																				
ZZZZZZ			21:51																				
CCV 240-148259/172			21:55																				
CCB 240-148259/173			21:58																				
ZZZZZZ			22:03																				
ZZZZZZ			22:07																				
ZZZZZZ			22:11																				
ZZZZZZ			22:15																				
ZZZZZZ			22:19																				
ZZZZZZ			22:23																				
ZZZZZZ			22:27																				
ZZZZZZ			22:31																				
ZZZZZZ			22:35																				
ZZZZZZ			22:39																				
CCV 240-148259/184			22:43																				
CCB 240-148259/185			22:47																				
ZZZZZZ			22:51																				
ZZZZZZ			22:55																				
ZZZZZZ			22:59																				
ZZZZZZ			23:03																				
ZZZZZZ			23:07																				
ZZZZZZ			23:11																				
ZZZZZZ			23:15																				
ZZZZZZ			23:19																				
ZZZZZZ			23:23																				
ZZZZZZ			23:27																				
CCV 240-148259/196			23:31																				
CCB 240-148259/197			23:35																				
ZZZZZZ			23:39																				
ZZZZZZ			23:43																				
ZZZZZZ			23:47																				
ZZZZZZ			23:51																				
ZZZZZZ			23:55																				
ZZZZZZ			23:59																				
ZZZZZZ			00:03																				
ZZZZZZ			00:07																				
ZZZZZZ			00:11																				
ZZZZZZ			00:15																				
CCV 240-148259/208			00:19																				
CCB 240-148259/209			00:23																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 09/23/2014 10:16 End Date: 09/24/2014 01:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Cd	Cr	Cu	Mn	Ni	Pb	Sb	Zn								
ZZZZZZ			00:28																				
ZZZZZZ			00:32																				
ZZZZZZ			00:36																				
ZZZZZZ			00:40																				
ZZZZZZ			00:44																				
ZZZZZZ			00:48																				
ZZZZZZ			00:52																				
ZZZZZZ			00:56																				
ZZZZZZ			01:00																				
ZZZZZZ			01:04																				
CCV 240-148259/220			01:09																				
CCB 240-148259/221			01:12																				
ZZZZZZ			01:17																				
ZZZZZZ			01:21																				
ZZZZZZ			01:25																				
ZZZZZZ			01:29																				
ZZZZZZ			01:33																				
ZZZZZZ			01:37																				
CCV 240-148259/228			01:41																				
CCB 240-148259/229			01:45																				

Prep Types

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 09/23/2014 07:40 End Date: 09/23/2014 19:33

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 240-148101/1-A			07:40	X																			
IC 240-148101/2-A			07:41	X																			
IC 240-148101/3-A			07:43	X																			
IC 240-148101/4-A			07:45	X																			
IC 240-148101/5-A			07:47	X																			
IC 240-148101/6-A			07:49	X																			
ICV 240-148101/7-A	1		07:59	X																			
ICB 240-148101/8-A	1		08:01	X																			
CRA 240-148101/9-A	1		08:04	X																			
CCVL 240-148101/10-A	1		08:12	X																			
CCB 240-148101/12-A			08:14																				
ZZZZZZ			08:15																				
ZZZZZZ			08:18																				
ZZZZZZ			08:20																				
ZZZZZZ			08:22																				
ZZZZZZ			08:24																				
ZZZZZZ			08:25																				
ZZZZZZ			08:28																				
ZZZZZZ			08:30																				
ZZZZZZ			08:31																				
ZZZZZZ			08:33																				
CCV 240-148101/11-A			08:36																				
CCB 240-148101/12-A			08:37																				
ZZZZZZ			08:40																				
ZZZZZZ			08:42																				
ZZZZZZ			08:43																				
ZZZZZZ			08:45																				
ZZZZZZ			08:47																				
ZZZZZZ			08:50																				
ZZZZZZ			08:52																				
ZZZZZZ			08:54																				
ZZZZZZ			08:56																				
ZZZZZZ			08:58																				
CCV 240-148101/11-A			09:00																				
CCB 240-148101/12-A			09:02																				
ZZZZZZ			09:04																				
ZZZZZZ			09:07																				
ZZZZZZ			09:09																				
ZZZZZZ			09:11																				
ZZZZZZ			09:12																				
ZZZZZZ			09:15																				
ZZZZZZ			09:17																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 09/23/2014 07:40 End Date: 09/23/2014 19:33

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			09:18																				
ZZZZZZ			09:20																				
ZZZZZZ			09:22																				
CCV 240-148101/11-A			09:24																				
CCB 240-148101/12-A			09:26																				
ZZZZZZ			09:28																				
ZZZZZZ			09:30																				
ZZZZZZ			09:31																				
ZZZZZZ			09:33																				
ZZZZZZ			09:36																				
ZZZZZZ			09:38																				
ZZZZZZ			09:40																				
ZZZZZZ			09:42																				
ZZZZZZ			09:43																				
ZZZZZZ			09:45																				
CCV 240-148101/11-A			09:47																				
CCB 240-148101/12-A			09:49																				
ZZZZZZ			09:51																				
ZZZZZZ			09:53																				
ZZZZZZ			09:56																				
ZZZZZZ			09:57																				
ZZZZZZ			09:59																				
ZZZZZZ			10:01																				
ZZZZZZ			10:03																				
ZZZZZZ			10:05																				
ZZZZZZ			10:07																				
ZZZZZZ			10:08																				
CCV 240-148101/11-A			10:10																				
CCB 240-148101/12-A			10:12																				
ZZZZZZ			10:14																				
ZZZZZZ			10:16																				
ZZZZZZ			10:18																				
ZZZZZZ			10:19																				
ZZZZZZ			10:22																				
ZZZZZZ			10:24																				
ZZZZZZ			10:26																				
ZZZZZZ			10:28																				
ZZZZZZ			10:30																				
ZZZZZZ			10:31																				
CCV 240-148101/11-A			10:33																				
CCB 240-148101/12-A			10:35																				
ZZZZZZ			10:37																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 09/23/2014 07:40 End Date: 09/23/2014 19:33

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			10:38																				
ZZZZZZ			10:40																				
ZZZZZZ			10:42																				
ZZZZZZ			10:44																				
ZZZZZZ			10:46																				
ZZZZZZ			10:47																				
ZZZZZZ			10:50																				
ZZZZZZ			10:51																				
ZZZZZZ			10:53																				
CCV 240-148101/11-A			10:56																				
CCB 240-148101/12-A			10:58																				
ZZZZZZ			10:59																				
ZZZZZZ			11:01																				
ZZZZZZ			11:03																				
ZZZZZZ			11:05																				
CCV 240-148101/11-A			11:07																				
CCB 240-148101/12-A			11:09																				
CCV 240-148101/11-A			14:29																				
CCB 240-148101/12-A			14:31																				
ZZZZZZ			14:33																				
ZZZZZZ			14:34																				
ZZZZZZ			14:38																				
ZZZZZZ			14:40																				
ZZZZZZ			14:41																				
ZZZZZZ			14:44																				
ZZZZZZ			14:46																				
ZZZZZZ			14:47																				
ZZZZZZ			14:49																				
ZZZZZZ			14:51																				
CCV 240-148101/11-A	1		14:53	X																			
CCB 240-148101/12-A	1		14:55	X																			
MB 240-147988/1-A	1	T	14:57	X																			
LCS 240-147988/2-A	1	T	14:58	X																			
ZZZZZZ			15:00																				
240-42127-A-1-E MS	1	T	15:02	X																			
240-42127-A-1-F MSD	1	T	15:04	X																			
ZZZZZZ			15:05																				
ZZZZZZ			15:07																				
ZZZZZZ			15:09																				
240-42186-1	1	T	15:11	X																			
240-42186-2	1	T	15:13	X																			
CCV 240-148101/11-A	1		15:15	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 09/23/2014 07:40 End Date: 09/23/2014 19:33

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCB 240-148101/12-A	1		15:17	X																			
240-42186-8	1	T	15:18	X																			
ZZZZZZ			15:20																				
ZZZZZZ			15:22																				
ZZZZZZ			15:24																				
ZZZZZZ			15:26																				
ZZZZZZ			15:28																				
ZZZZZZ			15:31																				
ZZZZZZ			15:33																				
ZZZZZZ			15:35																				
ZZZZZZ			15:38																				
CCV 240-148101/11-A	1		15:40	X																			
CCB 240-148101/12-A	1		15:41	X																			
ZZZZZZ			15:43																				
ZZZZZZ			15:45																				
ZZZZZZ			15:47																				
ZZZZZZ			15:49																				
ZZZZZZ			15:51																				
ZZZZZZ			15:53																				
ZZZZZZ			15:55																				
ZZZZZZ			15:57																				
ZZZZZZ			16:00																				
CRA 240-148101/9-A			16:02																				
CCV 240-148101/11-A			16:04																				
CCB 240-148101/12-A			16:06																				
ZZZZZZ			16:08																				
ZZZZZZ			16:10																				
ZZZZZZ			16:12																				
ZZZZZZ			16:14																				
ZZZZZZ			16:15																				
ZZZZZZ			16:17																				
ZZZZZZ			16:19																				
ZZZZZZ			16:22																				
ZZZZZZ			16:24																				
ZZZZZZ			16:26																				
CCV 240-148101/11-A			16:28																				
CCB 240-148101/12-A			16:30																				
ZZZZZZ			16:32																				
ZZZZZZ			16:34																				
ZZZZZZ			16:35																				
ZZZZZZ			16:37																				
ZZZZZZ			16:39																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 09/23/2014 07:40 End Date: 09/23/2014 19:33

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:42																				
ZZZZZZ			16:44																				
ZZZZZZ			16:46																				
ZZZZZZ			16:49																				
ZZZZZZ			16:50																				
CCV 240-148101/11-A			16:52																				
CCB 240-148101/12-A			16:54																				
ZZZZZZ			16:56																				
ZZZZZZ			16:57																				
ZZZZZZ			16:59																				
ZZZZZZ			17:01																				
ZZZZZZ			17:03																				
ZZZZZZ			17:06																				
ZZZZZZ			17:08																				
ZZZZZZ			17:09																				
ZZZZZZ			17:12																				
ZZZZZZ			17:13																				
CCV 240-148101/11-A			17:16																				
CCB 240-148101/12-A			17:18																				
ZZZZZZ			17:19																				
ZZZZZZ			17:22																				
ZZZZZZ			17:23																				
ZZZZZZ			17:25																				
ZZZZZZ			17:27																				
ZZZZZZ			17:29																				
ZZZZZZ			17:30																				
ZZZZZZ			17:32																				
ZZZZZZ			17:34																				
ZZZZZZ			17:36																				
CCV 240-148101/11-A			17:38																				
CCB 240-148101/12-A			17:40																				
ZZZZZZ			17:43																				
ZZZZZZ			17:45																				
ZZZZZZ			17:47																				
ZZZZZZ			17:49																				
ZZZZZZ			17:52																				
ZZZZZZ			17:54																				
ZZZZZZ			17:56																				
ZZZZZZ			17:58																				
ZZZZZZ			17:59																				
ZZZZZZ			18:01																				
CCV 240-148101/11-A			18:03																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 09/23/2014 07:40 End Date: 09/23/2014 19:33

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCB 240-148101/12-A			18:04																				
ZZZZZZ			18:06																				
ZZZZZZ			18:08																				
ZZZZZZ			18:10																				
ZZZZZZ			18:13																				
ZZZZZZ			18:15																				
ZZZZZZ			18:16																				
ZZZZZZ			18:18																				
ZZZZZZ			18:20																				
ZZZZZZ			18:22																				
ZZZZZZ			18:24																				
CCV 240-148101/11-A			18:26																				
CCB 240-148101/12-A			18:28																				
ZZZZZZ			18:29																				
ZZZZZZ			18:32																				
ZZZZZZ			18:34																				
ZZZZZZ			18:36																				
ZZZZZZ			18:37																				
ZZZZZZ			18:40																				
ZZZZZZ			18:41																				
ZZZZZZ			18:43																				
ZZZZZZ			18:45																				
ZZZZZZ			18:47																				
CCV 240-148101/11-A			18:49																				
CCB 240-148101/12-A			18:51																				
ZZZZZZ			18:53																				
ZZZZZZ			18:56																				
ZZZZZZ			18:58																				
ZZZZZZ			19:00																				
ZZZZZZ			19:02																				
ZZZZZZ			19:04																				
ZZZZZZ			19:06																				
ZZZZZZ			19:07																				
ZZZZZZ			19:09																				
ZZZZZZ			19:11																				
CCV 240-148101/11-A			19:13																				
CCB 240-148101/12-A			19:15																				
ZZZZZZ			19:17																				
ZZZZZZ			19:19																				
ZZZZZZ			19:20																				
ZZZZZZ			19:22																				
ZZZZZZ			19:24																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 09/23/2014 07:40 End Date: 09/23/2014 19:33

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			19:26																				
ZZZZZZ			19:28																				
CCV 240-148101/11-A			19:30																				
CCB 240-148101/12-A			19:33																				

Prep Types

T = Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Batch Number: 147984 Batch Start Date: 09/22/14 09:42 Batch Analyst: Lecorchick, Willis A

Batch Method: 3005A Batch End Date: 09/22/14 17:42

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00042	MTICP1 00033	MTICP2A 00040	MTTMHCL 00045
MB 240-147984/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-147984/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-42186-E-1	WSP-1-091914	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-42186-D-2	WSP-2-091914	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-42186-A-8	WSP-4-091914	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00038
MB 240-147984/1		3005A, 6010C		1 mL
LCS 240-147984/2		3005A, 6010C		1 mL
240-42186-E-1	WSP-1-091914	3005A, 6010C	R	1 mL
240-42186-D-2	WSP-2-091914	3005A, 6010C	R	1 mL
240-42186-A-8	WSP-4-091914	3005A, 6010C	R	1 mL

Batch Notes	
Filter Paper Lot Number	9579735
Hot Block ID number	C4
Pipette ID	383364
Digestion Tube/Cup Lot #	1404094

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Batch Number: 147988 Batch Start Date: 09/22/14 14:15 Batch Analyst: Lecorchick, Willis A

Batch Method: 7470A Batch End Date: 09/22/14 16:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00012	MTH2S04 00020	MTHGCALW 00727	MTKMN04W 00068
MB 240-147988/1		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
LCS 240-147988/2		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-42127-A-1 MS		7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-42127-A-1 MSD		7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-42186-E-1	WSP-1-091914	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-42186-D-2	WSP-2-091914	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-42186-A-8	WSP-4-091914	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00038					
MB 240-147988/1		7470A, 7470A		1.25 mL					
LCS 240-147988/2		7470A, 7470A		1.25 mL					
240-42127-A-1 MS		7470A, 7470A	T	1.25 mL					
240-42127-A-1 MSD		7470A, 7470A	T	1.25 mL					
240-42186-E-1	WSP-1-091914	7470A, 7470A	T	1.25 mL					
240-42186-D-2	WSP-2-091914	7470A, 7470A	T	1.25 mL					
240-42186-A-8	WSP-4-091914	7470A, 7470A	T	1.25 mL					

Batch Notes	
Hot Block ID number	C1
Pipette ID	383363-383366
Digestion Tube/Cup Lot #	1404094

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42186-1

SDG No.:

Batch Number: 148101 Batch Start Date: 09/22/14 06:25 Batch Analyst: Martin, Aaron

Batch Method: 7470A Batch End Date: 09/22/14 08:25

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTH2S04 00020	MTHGCALW 00727	MTHgStd 00011	MTK2S208RGNT 00054
ICV 240-148101/7		7470A, 7470A		50 mL	50 mL	2.5 mL		0.125 mL	4 mL
ICB 240-148101/8		7470A, 7470A		50 mL	50 mL	2.5 mL			4 mL
CRA 240-148101/9		7470A, 7470A		50 mL	50 mL	2.5 mL	0.1 mL		4 mL
CCVL 240-148101/10		7470A, 7470A		50 mL	50 mL	2.5 mL	2.5 mL		4 mL
CCV 240-148101/11		7470A, 7470A		50 mL	50 mL	2.5 mL	2.5 mL		4 mL
CCB 240-148101/12		7470A, 7470A		50 mL	50 mL	2.5 mL			4 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTKMN04W 00068	MTTMHNO3 00039				
ICV 240-148101/7		7470A, 7470A		7.5 mL	1.25 mL				
ICB 240-148101/8		7470A, 7470A		7.5 mL	1.25 mL				
CRA 240-148101/9		7470A, 7470A		7.5 mL	1.25 mL				
CCVL 240-148101/10		7470A, 7470A		7.5 mL	1.25 mL				
CCV 240-148101/11		7470A, 7470A		7.5 mL	1.25 mL				
CCB 240-148101/12		7470A, 7470A		7.5 mL	1.25 mL				

Batch Notes	
Hot Block ID number	B1
Pipette ID	383364-383366
Digestion Tube/Cup Lot #	1404094

Basis	Basis Description

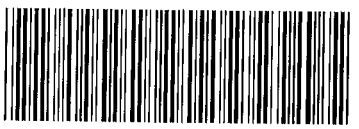
The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-42186 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
WSP-1-091914	240-42186-D-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-1-091914	240-42186-E-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-2-091914	240-42186-D-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-2-091914	240-42186-E-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-4-091914	240-42186-A-8	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-4-091914	240-42186-B-8	Plastic 250ml - with Nitric Acid	<2	_____	_____

5 Day TAT 20

Chain of Custody Record

TestAmerica
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Client Information	Sampler: Stu Cameron	Lab PM: John McFadden	Carrier Tracking No(s):	COC No: 180-19478-4921.2
Client Contact: Mr. Stuart Cameron	Phone: (703) 342-8389	E-Mail: John.McFadden@testamericainc.com		Page: Page 1 of 1
Company: Tetra Tech, Inc.		Analysis Requested		Job #: 112IC04770

Address: 20251 Century Blvd Suite 200	Due Date Requested:	
City: Germantown	TAT Requested (days): 5 day TAT	
State, Zip: MD, 20874	PO #:	
Phone: (301) 528-3002	WO #:	
Email: Stuart.Cameron@TetraTech.com	Project #: 112IC04770	
Project Name: MRC Block E MPE System O&M	SSOW#:	
Site: MRC, Middle River MD		

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs - TCL	Metals (Ca, Cr, Cu, Pb, Hg, Ni, Ag, Zn)	VOCs - PP (TTO, volatile portion)	SVOCs - PP (With TCDD screen) (TTO, non-volatile)	Pesticides - PP (TTO, non-volatile)	PCBs - PP (TTO, non volatile)	TPH (1664, as SGT-HEM)	pH, BOD, TSS (general chemistry)	COD, TKN, Total P (general chemistry)	Cyanides	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N	N	N	N	S	N	S	B		
WSP-1-091914	9/19/14	1140	G	W			3	2										
WSP-2-091914		1145					3	2										
WSP-3-091914		1150					3											
WSP-101-091914		1200					3											
~~WSP-102-091914~~ WSP-201-091914		1205					3											
~~WSP-103-091914~~ WSP-301-091914		1210					3											
~~WSP-104-091914~~ WSP-401-091914		1215					3											
WSP-4-091914		1155						2										
TB-091914	—	—	—	W			2											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 9-19-14 / 1400	Company: Tetra Tech	Received by: Dakota Turner	Date/Time: 9/20/14 9:40	Company: TA-Canton		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: △ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative Login # : 42186
Canton Facility

Client Tetratech Site Name _____ Cooler unpacked by: Dakota Thomas

Cooler Received on 9/20/14 Opened on 9/20/14

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +2 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	☐ See Multiple Cooler Form
IR GUN# 4	(CF -2 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 5	(CF 0 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8	(CF 0 °C)	Observed Cooler Temp. 2.0 °C	Corrected Cooler Temp. 2.0 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes (No)
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No (NA)
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? Yes (No)
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? (Yes) No NA pH Strip Lot# HC412469
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: DT

Trip blank in COC, not found in cooler

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ 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 the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-42212-1

Job Description: LM MRC Block E MPE System O&M

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
10/8/2014 4:59 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
10/08/2014

cc: Samantha Brenner
Ms. Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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- Client Chain of Custody 20

Job Narrative
240-42212-1

Comments
The VOC Vapor analysis was performed at Pace Analytical Services, Inc.

Receipt
The samples were received on 9/22/2014 9:40 AM; the samples arrived in good condition and on ice. The temperature of the cooler at receipt was 1.6º C.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42212-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-42212-1	VSP-3-091914	Air	09/19/2014 1240	09/22/2014 0940
240-42212-2	VSP-4-091914	Air	09/19/2014 1235	09/22/2014 0940
240-42212-3	VSP-5-091914	Air	09/19/2014 1230	09/22/2014 0940

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42212-1

Description	Lab Location	Method	Preparation Method
Matrix: Air			
General Sub Contract Method	SC0015	Subcontract	

Lab References:

SC0015 = Microseeps

Method References:

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Subcontract Data

Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

October 7, 2014

John McFadden
Test America
4101 Shuffel Drive NW
North Canton, OH 44720
USA

RE: **240-42212-1 / LM MRC Block**
Microseeps Workorder: 13434

Dear John McFadden:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, September 23, 2014. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Robbin Robl 10/07/2014
rrobl@microseeps.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 11

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Phone: (412) 826-5245
Fax: (412) 826-3433

LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, Microseeps is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 13434 240-42212-1 / LM MRC Block

Lab ID	Sample ID	Matrix	Date Collected	Date Received
134340001	VSP-3-091914(240-42212-1)	Vapor	9/19/2014 12:40	9/23/2014 11:20
134340002	VSP-4-091914(240-42212-2)	Vapor	9/19/2014 12:35	9/23/2014 11:20
134340003	VSP-5-091914(240-42212-3)	Vapor	9/19/2014 12:30	9/23/2014 11:20

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Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 13434 240-42212-1 / LM MRC Block

Lab ID: **134340001** Date Received: 9/23/2014 11:20 Matrix: Vapor

Sample ID: **VSP-3-091914(240-42212-1)** Date Collected: 9/19/2014 12:40

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors							
Vinyl Chloride	**0.22J**	ppmv	1.0	0.095	1			10/1/2014 20:58	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			10/1/2014 20:58	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			10/1/2014 20:58	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			10/1/2014 20:58	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			10/1/2014 20:58	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			10/1/2014 20:58	SL	
Chloroform	**0.0047J**	ppmv	0.0050	0.0010	1			10/1/2014 20:58	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			10/1/2014 20:58	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			10/1/2014 20:58	SL	
Trichloroethene	**8.1**	ppmv	0.010	0.0010	1			10/1/2014 20:58	SL	
Tetrachloroethene	**0.010 U**	ppmv	0.010	0.0010	1			10/1/2014 20:58	SL	

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ANALYTICAL RESULTS

Workorder: 13434 240-42212-1 / LM MRC Block

Lab ID: **134340002** Date Received: 9/23/2014 11:20 Matrix: Vapor

Sample ID: **VSP-4-091914(240-42212-2)** Date Collected: 9/19/2014 12:35

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors							
Vinyl Chloride	**0.16J**	ppmv	1.0	0.095	1			10/1/2014 22:06	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			10/1/2014 22:06	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			10/1/2014 22:06	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			10/1/2014 22:06	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			10/1/2014 22:06	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			10/1/2014 22:06	SL	
Chloroform	**0.0050 U**	ppmv	0.0050	0.0010	1			10/1/2014 22:06	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			10/1/2014 22:06	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			10/1/2014 22:06	SL	
Trichloroethene	**0.0038J**	ppmv	0.010	0.0010	1			10/1/2014 22:06	SL	
Tetrachloroethene	**0.010 U**	ppmv	0.010	0.0010	1			10/1/2014 22:06	SL	

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ANALYTICAL RESULTS

Workorder: 13434 240-42212-1 / LM MRC Block

Lab ID: **134340003** Date Received: 9/23/2014 11:20 Matrix: Vapor

Sample ID: **VSP-5-091914(240-42212-3)** Date Collected: 9/19/2014 12:30

Parameters	Results	Units	PQL	MDL	DF	Prepared	By	Analyzed	By	Qual
RISK - MICR										
Analysis Desc: AM4.02 Vapors			Analytical Method: AM4.02 Vapors							
Vinyl Chloride	**0.14J**	ppmv	1.0	0.095	1			10/1/2014 23:14	SL	
1,1-Dichloroethene	**0.010 U**	ppmv	0.010	0.0010	1			10/1/2014 23:14	SL	
Methylene Chloride	**2.0 U**	ppmv	2.0	0.19	1			10/1/2014 23:14	SL	
trans-1,2-Dichloroethene	**0.010 U**	ppmv	0.010	0.0080	1			10/1/2014 23:14	SL	
1,1-Dichloroethane	**0.020 U**	ppmv	0.020	0.0040	1			10/1/2014 23:14	SL	
cis-1,2-Dichloroethene	**0.020 U**	ppmv	0.020	0.0070	1			10/1/2014 23:14	SL	
Chloroform	**0.0050 U**	ppmv	0.0050	0.0010	1			10/1/2014 23:14	SL	
1,1,1-Trichloroethane	**0.0050 U**	ppmv	0.0050	0.0010	1			10/1/2014 23:14	SL	
Carbon Tetrachloride	**0.0050 U**	ppmv	0.0050	0.0010	1			10/1/2014 23:14	SL	
Trichloroethene	**0.0045J**	ppmv	0.010	0.0010	1			10/1/2014 23:14	SL	
Tetrachloroethene	**0.010 U**	ppmv	0.010	0.0010	1			10/1/2014 23:14	SL	

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 13434 240-42212-1 / LM MRC Block

DEFINITIONS/QUALIFIERS

Disclaimer : The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20GAx, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).

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Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 13434 240-42212-1 / LM MRC Block

QC Batch: VAP/1610 Analysis Method: AM4.02 Vapors

QC Batch Method: AM4.02 Vapors

Associated Lab Samples: 134340001, 134340002, 134340003

METHOD BLANK: 30477

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
1,1-Dichloroethene	ppmv	0.010 U	0.010	
trans-1,2-Dichloroethene	ppmv	0.010 U	0.010	
1,1-Dichloroethane	ppmv	0.020 U	0.020	
cis-1,2-Dichloroethene	ppmv	0.020 U	0.020	
Chloroform	ppmv	0.0050 U	0.0050	
1,1,1-Trichloroethane	ppmv	0.0050 U	0.0050	
Carbon Tetrachloride	ppmv	0.0050 U	0.0050	
Trichloroethene	ppmv	0.010 U	0.010	
Tetrachloroethene	ppmv	0.010 U	0.010	

METHOD BLANK: 30478

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Vinyl Chloride	ppmv	1.0 U	1.0	
Methylene Chloride	ppmv	2.0 U	2.0	

LABORATORY CONTROL SAMPLE & LCSD: 30479 30481

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
1,1-Dichloroethene	ppmv	0.65	0.67	0.68	103	105	75-125	1.9	20	
trans-1,2-Dichloroethene	ppmv	0.65	0.63	0.62	97	96	75-125	1	20	
1,1-Dichloroethane	ppmv	0.64	0.67	0.66	105	103	75-125	1.9	20	
cis-1,2-Dichloroethene	ppmv		0.020 U	0.020 U						
Chloroform	ppmv	0.53	0.53	0.54	101	101	75-125	0	20	
1,1,1-Trichloroethane	ppmv	0.47	0.46	0.47	98	99	75-125	1	20	
Carbon Tetrachloride	ppmv	0.41	0.41	0.42	101	102	75-125	0.99	20	
Trichloroethene	ppmv	0.48	0.48	0.48	101	101	75-125	0	20	
Tetrachloroethene	ppmv		0.010 U	0.010 U						

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Microseeps/Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA

Workorder: 13434 240-42212-1 / LM MRC Block

LABORATORY CONTROL SAMPLE & LCSD: 30480 30482

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Vinyl Chloride	ppmv		1.0 U	1.0 U						
Methylene Chloride	ppmv		2.0 U	2.0 U						

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220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 13434 240-42212-1 / LM MRC Block

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
134340001	VSP-3-091914(240-42212-1)			AM4.02 Vapors	VAP/1610
134340002	VSP-4-091914(240-42212-2)			AM4.02 Vapors	VAP/1610
134340003	VSP-5-091914(240-42212-3)			AM4.02 Vapors	VAP/1610

CERTIFICATE OF ANALYSIS

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TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

13434

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: McFadden, John	Carrier Tracking No(s):	COC No: 240-33852.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: john.mcfadden@testamericainc.com		Page: Page 1 of 1
Company: Pace Analytical Services, Inc.				Job #: 240-42212-1
Address: 220 William Pitt Way, ,	Due Date Requested: 10/8/2014			
City: Pittsburgh	TAT Requested (days):			
State, Zip: PA, 15238				
Phone: 412-826-5245(Tel)	PO #:			
Email:	WO #:			
Project Name: LM MRC Block E Soil Remedy 2014	Project #: 24012611			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUB (VOCs Vapor)/ VOCs Vapor	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
VSP-3-091914 (240-42212-1)	9/19/14	12:40 Eastern		Air			X	1	
VSP-4-091914 (240-42212-2)	9/19/14	12:35 Eastern		Air			X	1	
VSP-5-091914 (240-42212-3)	9/19/14	12:30 Eastern		Air			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

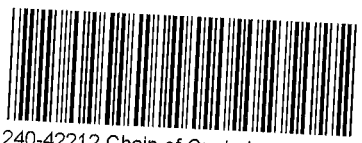
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Lance Hud	Date/Time: 92214 1600	Company: THC	Received by: [signature]	Date/Time: 9.23.14 1120	Company: PAES
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Shipping and Receiving Documents

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-42212 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 tel 330.497.9396 fax 330.497.0772 www.testamericainc.com

Pace Analytical®
www.pacelabs.com
Microseeps

220 William Pitt Way
Pittsburgh, PA 15238
412-826-5245

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Test America PM: John McFadden

1.6

Page: 1 of 1

[redacted]

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Tetra Tech	Report To:	Attention:
Address: 20251 Century Blvd Ste 200	Copy To:	Company Name:
		Address:
Email To: Chris.Pike@tetraTech.com	Purchase Order No.:	Pace Quote Reference:
Phone: 412 302-1624 Fax:	Project Name: MRC Block E MPE System O&M	Pace Project Manager:
Requested Due Date/TAT: 5 day TAT	Project Number: 112IC04770	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: MD

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION (°F)	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	TSP	BAK	Zinc Acetate & NaOH	Other	Analysis Test (Y/N)	Vapors by Microscopes	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	VSP-3-091914	AR	G	–	–	9/19/14	1240	70	2	X									X		
2	VSP-4-091914	AR	G	–	–	↓	1235	70	2	X									X		
3	VSP-5-091914	AR	G	–	–	↓	1230	70	2	X									X		
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Stuart Cameron / Tetra Tech	9/19/14	1400	Dakota Turner	9/20/14	9:40	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

TestAmerica Canton Sample Receipt Form/Narrative Login # : 412212
Canton Facility

Client Tetratech Site Name

Cooler unpacked by: Dakota Thurman

Cooler Received on 9/20/14 Opened on 9/20/14

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) ~~Blue Ice~~ ~~Dry Ice~~ Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +2 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C	
IR GUN# 4	(CF -2 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C	☐ See Multiple Cooler Form
IR GUN# 5	(CF 0 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C	
IR GUN# 8	(CF 0 °C)	Observed Cooler Temp. 2.0 °C	Corrected Cooler Temp. 2.0 °C	1,6 VB 9/20/14

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity Yes (No)
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No (NA)
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC412469
11. Were VOAs on the COC? Yes (No)
12. Were air bubbles >6 mm in any VOA vials? Yes No (NA)
13. Was a trip blank present in the cooler(s)? Yes (No)

Contacted PM Date by via Verbal Voice Mail Other
Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) 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 the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-42183-1

Job Description: LM MRC Block E MPE System O&M

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
9/24/2014 9:50 AM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
09/24/2014

cc: Samantha Brenner
Ms. Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: LM MRC Block E MPE System O&M

Report Number: 240-42183-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The sample was received on 9/20/2014 9:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Sample WSP-4-091914 (240-42183-1) was analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 09/23/2014.

The continuing calibration verification (CCV) for analytical batch 148222 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detects for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-42183-1	WSP-4-091914	Water	09/19/2014 1155	09/20/2014 0940

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL CAN	SW846 8260C	
Purge and Trap	TAL CAN		SW846 5030C

Lab References:

TAL CAN = TestAmerica Canton

Method References:

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Method	Analyst	Analyst ID
SW846 8260C	Evans, Laura	LEE

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Client Sample ID: **WSP-4-091914**

Lab Sample ID: 240-42183-1 Date Sampled: 09/19/2014 1155
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148222	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1085.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/23/2014 1305			Final Weight/Volume:	5 mL
Prep Date:	09/23/2014 1305				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Client Sample ID: **WSP-4-091914**

Lab Sample ID: 240-42183-1 Date Sampled: 09/19/2014 1155
Client Matrix: Water Date Received: 09/20/2014 0940

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-148222	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1085.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/23/2014 1305			Final Weight/Volume:	5 mL
Prep Date:	09/23/2014 1305				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	83		74 - 120
Dibromofluoromethane (Surr)	92		75 - 121
4-Bromofluorobenzene (Surr)	76		66 - 120
1,2-Dichloroethane-d4 (Surr)	79		63 - 129

Client: Tetra Tech, Inc.

Job Number: 240-42183-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-42183-1	WSP-4-091914	92	79	83	76
MB 240-148222/7		90	79	82	73
LCS 240-148222/4		88	75	84	82

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Method Blank - Batch: 240-148222

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-148222/7	Analysis Batch:	240-148222	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1084.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/23/2014 1243	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/23/2014 1243				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Method Blank - Batch: 240-148222

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-148222/7	Analysis Batch:	240-148222	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1084.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/23/2014 1243	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/23/2014 1243				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
tert-Butyl alcohol	8.7	U	8.7	50
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	82	74 - 120
Dibromofluoromethane (Surr)	90	75 - 121
4-Bromofluorobenzene (Surr)	73	66 - 120
1,2-Dichloroethane-d4 (Surr)	79	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Lab Control Sample - Batch: 240-148222

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-148222/4	Analysis Batch:	240-148222	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1079.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/23/2014 1050	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/23/2014 1050				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	10.2	102	72 - 120	
1,1,1-Trichloroethane	10.0	11.4	114	74 - 120	
1,1,2,2-Tetrachloroethane	10.0	8.55	86	68 - 120	
1,1,2-Trichlorotrifluoroethane	10.0	10.6	106	74 - 151	
1,1-Dichloroethane	10.0	11.0	110	80 - 120	
1,1-Dichloroethene	10.0	10.5	105	78 - 131	
1,1-Dichloropropene	10.0	11.6	116	80 - 120	
1,2,3-Trichlorobenzene	10.0	8.78	88	54 - 126	
1,2,3-Trichloropropane	10.0	8.66	87	73 - 129	
1,2,4-Trichlorobenzene	10.0	8.70	87	48 - 135	
1,2,4-Trimethylbenzene	10.0	9.19	92	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	8.92	89	42 - 136	
1,2-Dichlorobenzene	10.0	9.62	96	80 - 120	
1,2-Dichloroethane	10.0	9.23	92	71 - 127	
1,2-Dichloropropane	10.0	11.2	112	80 - 120	
1,3-Dichlorobenzene	10.0	9.47	95	80 - 120	
1,3-Dichloropropane	10.0	9.36	94	79 - 120	
1,4-Dichlorobenzene	10.0	9.79	98	80 - 120	
2,2-Dichloropropane	10.0	11.3	113	50 - 129	
2-Butanone (MEK)	20.0	15.9	80	60 - 126	
2-Chloroethyl vinyl ether	12.0	8.11	68	52 - 131	J
2-Chlorotoluene	10.0	9.37	94	76 - 120	
2-Hexanone	20.0	16.0	80	55 - 133	
4-Chlorotoluene	10.0	9.48	95	77 - 120	
4-Isopropyltoluene	10.0	9.04	90	74 - 120	
4-Methyl-2-pentanone (MIBK)	20.0	17.8	89	63 - 128	
Acetone	20.0	14.5	73	43 - 136	
Benzene	10.0	11.4	114	80 - 120	
Bromobenzene	10.0	9.96	100	76 - 120	
Bromoform	10.0	9.16	92	40 - 131	
Bromomethane	10.0	10.2	102	11 - 185	
Carbon disulfide	10.0	12.0	120	62 - 142	
Carbon tetrachloride	10.0	12.6	126	66 - 128	
Chlorobenzene	10.0	9.89	99	80 - 120	
Chlorodibromomethane	10.0	9.60	96	64 - 120	
Chloroethane	10.0	9.79	98	25 - 153	
Chloroform	10.0	10.3	103	79 - 120	
Chloromethane	10.0	9.21	92	44 - 126	
cis-1,2-Dichloroethene	10.0	11.1	111	80 - 120	
cis-1,3-Dichloropropene	10.0	10.9	109	61 - 120	
Dibromomethane	10.0	10.3	103	80 - 120	
Bromochloromethane	10.0	11.1	111	77 - 120	
Dichlorodifluoromethane	10.0	8.71	87	19 - 129	
Bromodichloromethane	10.0	10.4	104	72 - 121	
tert-Butyl alcohol	100	88.2	88	70 - 130	
Ethylbenzene	10.0	10.2	102	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Lab Control Sample - Batch: 240-148222

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-148222/4	Analysis Batch:	240-148222	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1079.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/23/2014 1050	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/23/2014 1050				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorobutadiene	10.0	9.44	94	36 - 134	
Isopropylbenzene	10.0	9.54	95	75 - 120	
Methyl tert-butyl ether	10.0	10.4	104	52 - 144	
Methylene Chloride	10.0	11.5	115	66 - 131	
m-Xylene & p-Xylene	10.0	10.2	102	80 - 120	
Naphthalene	10.0	8.04	80	32 - 141	
n-Butylbenzene	10.0	8.64	86	66 - 125	
N-Propylbenzene	10.0	9.48	95	74 - 121	
o-Xylene	10.0	10.0	100	80 - 120	
sec-Butylbenzene	10.0	9.16	92	70 - 120	
Styrene	10.0	10.4	104	79 - 120	
Tetrachloroethene	10.0	10.5	105	79 - 120	
Toluene	10.0	10.4	104	80 - 120	
trans-1,2-Dichloroethene	10.0	11.4	114	80 - 120	
trans-1,3-Dichloropropene	10.0	10.3	103	58 - 120	
Trichloroethene	10.0	10.8	108	76 - 120	
Trichlorofluoromethane	10.0	10.1	101	49 - 157	
Vinyl acetate	8.00	6.92	87	46 - 161	
Vinyl chloride	10.0	9.74	97	53 - 127	
Xylenes, Total	20.0	20.2	101	80 - 120	
tert-Butylbenzene	10.0	8.89	89	71 - 120	
1,2-Dibromoethane	10.0	9.78	98	79 - 120	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	84	74 - 120
Dibromofluoromethane (Surr)	88	75 - 121
4-Bromofluorobenzene (Surr)	82	66 - 120
1,2-Dichloroethane-d4 (Surr)	75	63 - 129

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Tetra Tech, Inc. Job Number: 240-42183-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-148222					
LCS 240-148222/4	Lab Control Sample	T	Water	8260C	
MB 240-148222/7	Method Blank	T	Water	8260C	
240-42183-1	WSP-4-091914	T	Water	8260C	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-42183-1

Laboratory Chronicle

Lab ID: 240-42183-1 **Client ID:** WSP-4-091914

Sample Date/Time: 09/19/2014 11:55 Received Date/Time: 09/20/2014 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42183-B-1		240-148222		09/23/2014 13:05	1	TAL CAN	LEE
A:8260C	240-42183-B-1		240-148222		09/23/2014 13:05	1	TAL CAN	LEE

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 240-148222/7		240-148222		09/23/2014 12:43	1	TAL CAN	LEE
A:8260C	MB 240-148222/7		240-148222		09/23/2014 12:43	1	TAL CAN	LEE

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 240-148222/4		240-148222		09/23/2014 10:50	1	TAL CAN	LEE
A:8260C	LCS 240-148222/4		240-148222		09/23/2014 10:50	1	TAL CAN	LEE

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm50ICVss_00009	09/10/14	09/03/14	MEOH, Lot na	2 mL	vm50icvss_stk_00001	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50icvss_stk_00001	09/14/14	03/14/14	MEOH, Lot 0000049909	50 mL	VMstm530_00021	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VMstm530_00021	05/31/15	Ultra Scientific, Lot CJ-1280			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VM50IS_00042	09/30/14	06/24/14	MEOH, Lot 38701	50 mL	vm30241_00001	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18	restek, Lot A093261			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_stk_00060	10/10/14	04/10/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00017	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00061	01/05/15	07/07/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00017	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00064	09/09/14	09/02/14	MEOH, Lot na	3 mL	VMACROLSTD_00016	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00016	10/02/14	09/02/14	MEOH, Lot +182820000062345JF	20 mL	VM568720_00002	0.25 mL	Acrolein	250 ug/mL
..VM568720_00002	10/31/14	restek, Lot A0104246			(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASA9W_00026	09/09/14	09/02/14	MEOH, Lot NA	2 mL	VMFASA9_00003	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMFASA9_00003	02/05/15	08/05/14	MEOH, Lot +182820000062345JF	100 mL	vm568722S_00002	2.5 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723S_00001	2.5 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-amyl methyl ether	50 ug/mL
..vm568722S_00002	06/30/15		restek, Lot A0100258		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723S_00001	04/30/16		restek, Lot A0102749		(Purchased Reagent)		Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMFASGW_00052	09/06/14	08/30/14	MEOH, Lot NA	2 mL	VMFASG_00018	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00018	09/14/14	08/14/14	MEOH, Lot 0000062345	50 mL	VM567645S_00015	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00015	08/31/15		Restek, Lot A097497		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00056	09/29/14	09/22/14	MEOH, Lot NA	2 mL	VMFASG_00019	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00019	10/04/14	09/04/14	MEOH, Lot 0000062345	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00049	09/05/14	08/29/14	MEOH, Lot NA	2 mL	VMRFASP_00010	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00010	09/29/14	08/29/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00005	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00009	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00007	1 mL	Vinyl acetate	40 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00009	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00007	10/31/14		Restek, Lot A0102474		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMFASPW_00052	09/29/14	09/22/14	MEOH, Lot NA	2 mL	VMRFASP_00010	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00010	09/29/14	08/29/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00005	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00009	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00007	1 mL	Vinyl acetate	40 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00009	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00007	10/31/14		Restek, Lot A0102474		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRA9W_00071	09/06/14	08/30/14	MEOH, Lot NA	1 mL	VMRA9_00010	1 mL	Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00010	10/29/14	07/29/14	MEOH, Lot 134079	50 mL	VM567648_00014	1.25 mL	Cyclohexanone	500 ug/mL
					vm567719_00020	2.5 mL	2-Methylnaphthalene	100 ug/mL
					vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
					VM568723_00001	1.25 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..VM567648_00014	02/29/16	Restek, Lot A093361			(Purchased Reagent)		Cyclohexanone	20000 ug/mL
..vm567719_00020	02/28/15	Restek, Lot A093359			(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
..vm568722_00002	06/30/15	restek, Lot A0100262			(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							1-Chlorohexane	2000 ug/mL
							2-Chloro-1,3-butadiene	2000 ug/mL
							2-Nitropropane	4000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL
..VM568723_00001	12/31/15	restek, Lot A099930			(Purchased Reagent)		Acetonitrile	20000 ug/mL
							Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRA9W_00074	09/29/14	09/22/14	MEOH, Lot NA	1 mL	VMRA9_00010	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00010	10/29/14	07/29/14	MEOH, Lot 134079	50 mL	vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723_00001	1.25 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..vm568722_00002	06/30/15	restek, Lot A0100262			(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723_00001	12/31/15	restek, Lot A099930			(Purchased Reagent)		Diisopropyl ether	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRGAS_00068	09/09/14	09/02/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRGAS_00070	09/25/14	09/18/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRPRIMW_00078	09/09/14	09/02/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00082	09/25/14	09/18/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-42183-1
Project/Site: LM MRC Block E MPE System O&M

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

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 #
WSP-4-091914	240-42183-1	92	79	83	76
	MB 240-148222/7	90	79	82	73
	LCS 240-148222/4	88	75	84	82

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ1079.D

Lab ID: LCS 240-148222/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	10.2	102	72-120	
1,1,1-Trichloroethane	10.0	11.4	114	74-120	
1,1,2,2-Tetrachloroethane	10.0	8.55	86	68-120	
1,1,2-Trichlorotrifluoroethane	10.0	10.6	106	74-151	
1,1-Dichloroethane	10.0	11.0	110	80-120	
1,1-Dichloroethene	10.0	10.5	105	78-131	
1,1-Dichloropropene	10.0	11.6	116	80-120	
1,2,3-Trichlorobenzene	10.0	8.78	88	54-126	
1,2,3-Trichloropropane	10.0	8.66	87	73-129	
1,2,4-Trichlorobenzene	10.0	8.70	87	48-135	
1,2,4-Trimethylbenzene	10.0	9.19	92	76-120	
1,2-Dibromo-3-Chloropropane	10.0	8.92	89	42-136	
1,2-Dichlorobenzene	10.0	9.62	96	80-120	
1,2-Dichloroethane	10.0	9.23	92	71-127	
1,2-Dichloropropane	10.0	11.2	112	80-120	
1,3-Dichlorobenzene	10.0	9.47	95	80-120	
1,3-Dichloropropane	10.0	9.36	94	79-120	
1,4-Dichlorobenzene	10.0	9.79	98	80-120	
2,2-Dichloropropane	10.0	11.3	113	50-129	
2-Butanone (MEK)	20.0	15.9	80	60-126	
2-Chloroethyl vinyl ether	12.0	8.11 J	68	52-131	
2-Chlorotoluene	10.0	9.37	94	76-120	
2-Hexanone	20.0	16.0	80	55-133	
4-Chlorotoluene	10.0	9.48	95	77-120	
4-Isopropyltoluene	10.0	9.04	90	74-120	
4-Methyl-2-pentanone (MIBK)	20.0	17.8	89	63-128	
Acetone	20.0	14.5	73	43-136	
Benzene	10.0	11.4	114	80-120	
Bromobenzene	10.0	9.96	100	76-120	
Bromoform	10.0	9.16	92	40-131	
Bromomethane	10.0	10.2	102	11-185	
Carbon disulfide	10.0	12.0	120	62-142	
Carbon tetrachloride	10.0	12.6	126	66-128	
Chlorobenzene	10.0	9.89	99	80-120	
Chlorodibromomethane	10.0	9.60	96	64-120	
Chloroethane	10.0	9.79	98	25-153	
Chloroform	10.0	10.3	103	79-120	
Chloromethane	10.0	9.21	92	44-126	
cis-1,2-Dichloroethene	10.0	11.1	111	80-120	
cis-1,3-Dichloropropene	10.0	10.9	109	61-120	
Dibromomethane	10.0	10.3	103	80-120	
Bromochloromethane	10.0	11.1	111	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ1079.D

Lab ID: LCS 240-148222/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	8.71	87	19-129	
Bromodichloromethane	10.0	10.4	104	72-121	
tert-Butyl alcohol	100	88.2	88	70-130	
Ethylbenzene	10.0	10.2	102	80-120	
Hexachlorobutadiene	10.0	9.44	94	36-134	
Isopropylbenzene	10.0	9.54	95	75-120	
Methyl tert-butyl ether	10.0	10.4	104	52-144	
Methylene Chloride	10.0	11.5	115	66-131	
m-Xylene & p-Xylene	10.0	10.2	102	80-120	
Naphthalene	10.0	8.04	80	32-141	
n-Butylbenzene	10.0	8.64	86	66-125	
N-Propylbenzene	10.0	9.48	95	74-121	
o-Xylene	10.0	10.0	100	80-120	
sec-Butylbenzene	10.0	9.16	92	70-120	
Styrene	10.0	10.4	104	79-120	
Tetrachloroethene	10.0	10.5	105	79-120	
Toluene	10.0	10.4	104	80-120	
trans-1,2-Dichloroethene	10.0	11.4	114	80-120	
trans-1,3-Dichloropropene	10.0	10.3	103	58-120	
Trichloroethene	10.0	10.8	108	76-120	
Trichlorofluoromethane	10.0	10.1	101	49-157	
Vinyl acetate	8.00	6.92	87	46-161	
Vinyl chloride	10.0	9.74	97	53-127	
Xylenes, Total	20.0	20.2	101	80-120	
tert-Butylbenzene	10.0	8.89	89	71-120	
1,2-Dibromoethane	10.0	9.78	98	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Lab File ID: UXJ1084.D Lab Sample ID: MB 240-148222/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX11 Date Analyzed: 09/23/2014 12:43

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 240-148222/4	UXJ1079.D	09/23/2014 10:50
WSP-4-091914	240-42183-1	UXJ1085.D	09/23/2014 13:05

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Lab File ID: BFB904.D BFB Injection Date: 09/04/2014

Instrument ID: A3UX11 BFB Injection Time: 09:27

Analysis Batch No.: 145573

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	48.1	
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	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	88.0	
175	5.0 - 9.0 % of mass 174	6.5	(7.4)1
176	95.0 - 101.0 % of mass 174	83.8	(95.3)1
177	5.0 - 9.0 % of mass 176	5.1	(6.0)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 240-145573/2	UXJ0622.D	09/04/2014	09:56
	STD8260 240-145573/3	UXJ0623.D	09/04/2014	10:19
	STD8260 240-145573/4	UXJ0624.D	09/04/2014	10:41
	STD8260 240-145573/5	UXJ0625.D	09/04/2014	11:03
	STD8260 240-145573/6	UXJ0626.D	09/04/2014	11:25
	STD8260 240-145573/7	UXJ0627.D	09/04/2014	11:48
	STD6 240-145573/8	UXJ0628.D	09/04/2014	12:11
	STD5 240-145573/9	UXJ0629.D	09/04/2014	12:33
	STD4 240-145573/10	UXJ0630.D	09/04/2014	12:56
	STD3 240-145573/11	UXJ0631.D	09/04/2014	13:18
	STD2 240-145573/12	UXJ0632.D	09/04/2014	13:41
	STD1 240-145573/13	UXJ0633.D	09/04/2014	14:04
	ICV 240-145573/14	UXJ0634.D	09/04/2014	14:30
	ICV 240-145573/15	UXJ0635.D	09/04/2014	14:53

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Lab File ID: BFB923.D BFB Injection Date: 09/23/2014

Instrument ID: A3UX11 BFB Injection Time: 10:00

Analysis Batch No.: 148222

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.3	
75	30.0 - 60.0 % of mass 95	44.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	96.5	
175	5.0 - 9.0 % of mass 174	7.5	(7.7)1
176	95.0 - 101.0 % of mass 174	93.3	(96.7)1
177	5.0 - 9.0 % of mass 176	6.2	(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 240-148222/2	UXJ1078.D	09/23/2014	10:28
	LCS 240-148222/4	UXJ1079.D	09/23/2014	10:50
	CCV 240-148222/3	UXJ1080.D	09/23/2014	11:13
	MB 240-148222/7	UXJ1084.D	09/23/2014	12:43
WSP-4-091914	240-42183-1	UXJ1085.D	09/23/2014	13:05

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Sample No.: STD8260 240-145573/4 Date Analyzed: 09/04/2014 10:41

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ0624.D Heated Purge: (Y/N) N

Calibration ID: 24057

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1612817	5.37	964884	8.05	384586	10.29
UPPER LIMIT		3225634	5.87	1929768	8.55	769172	10.79
LOWER LIMIT		806409	4.87	482442	7.55	192293	9.79
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-145573/14		1527527	5.37	926655	8.05	371854	10.29
ICV 240-145573/15		1501687	5.37	914341	8.05	328255	10.29
CCVIS 240-148222/2		1560175	5.37	991107	8.05	419978	10.29

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 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Sample No.: CCVIS 240-148222/2 Date Analyzed: 09/23/2014 10:28

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ1078.D Heated Purge: (Y/N) N

Calibration ID: 24059

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1560175	5.37	991107	8.05	419978	10.29
UPPER LIMIT		3120350	5.87	1982214	8.55	839956	10.79
LOWER LIMIT		780088	4.87	495554	7.55	209989	9.79
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-148222/4		1518929	5.37	1006833	8.05	388399	10.29
CCV 240-148222/3		1470909	5.37	998725	8.05	334490	10.29
MB 240-148222/7		1317504	5.37	867239	8.05	309008	10.29
240-42183-1	WSP-4-091914	1352899	5.37	873898	8.05	305364	10.29

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42183-1

SDG No.:

Client Sample ID: WSP-4-091914 | Lab Sample ID: 240-42183-1

Matrix: Water | Lab File ID: UXJ1085.D

Analysis Method: 8260C | Date Collected: 09/19/2014 11:55

Sample wt/vol: 5(mL) | Date Analyzed: 09/23/2014 13:05

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.: 148222 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Client Sample ID: WSP-4-091914 Lab Sample ID: 240-42183-1

Matrix: Water Lab File ID: UXJ1085.D

Analysis Method: 8260C Date Collected: 09/19/2014 11:55

Sample wt/vol: 5(mL) Date Analyzed: 09/23/2014 13:05

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.: 148222 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Client Sample ID: WSP-4-091914 Lab Sample ID: 240-42183-1

Matrix: Water Lab File ID: UXJ1085.D

Analysis Method: 8260C Date Collected: 09/19/2014 11:55

Sample wt/vol: 5(mL) Date Analyzed: 09/23/2014 13:05

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.: 148222 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	83		74-120
1868-53-7	Dibromofluoromethane (Surr)	92		75-121
460-00-4	4-Bromofluorobenzene (Surr)	76		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79		63-129

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-145573/7	UXJ0627.D
Level 2	STD8260 240-145573/6	UXJ0626.D
Level 3	STD8260 240-145573/5	UXJ0625.D
Level 4	STD8260 240-145573/4	UXJ0624.D
Level 5	STD8260 240-145573/3	UXJ0623.D
Level 6	STD8260 240-145573/2	UXJ0622.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	0.2151 0.2188	0.2011	0.2087	0.2057	0.2180	Ave		0.2112			0.1000	3.4		15.0			
Chloromethane	0.2648 0.2193	0.2497	0.2373	0.2225	0.2257	Ave		0.2365			0.1000	7.5		15.0			
Vinyl chloride	0.2614 0.2368	0.2514	0.2462	0.2337	0.2424	Ave		0.2453			0.1000	4.1		15.0			
Bromomethane	0.1137 0.1191	0.1161	0.1089	0.1079	0.1190	Ave		0.1141			0.0500	4.3		15.0			
Chloroethane	0.1402 0.1367	0.1365	0.1301	0.1294	0.1371	Ave		0.1350				3.2		15.0			
Dichlorofluoromethane	0.2683 0.2778	0.2821	0.2565	0.2510	0.2757	Ave		0.2686				4.6		15.0			
Trichlorofluoromethane	0.2629 0.2532	0.2452	0.2488	0.2520	0.2642	Ave		0.2544			0.1000	3.0		15.0			
Ethyl ether	0.2848 0.2490	0.2772	0.2647	0.2548	0.2557	Ave		0.2644				5.3		15.0			
Acrolein	0.0272 0.0234	0.0249	0.0250	0.0245	0.0256	Ave		0.0251				5.0		15.0			
1,1-Dichloroethene	0.2530 0.2323	0.2419	0.2362	0.2292	0.2381	Ave		0.2384			0.1000	3.5		15.0			
1,1,2-Trichlorotrifluoroethane	0.1503 0.1375	0.1265	0.1314	0.1227	0.1358	Ave		0.1340			0.0500	7.2		15.0			
Acetone	0.1569 0.0510	0.1200	0.0787	0.0666	0.0639	Qua	0.1689	0.0669	0		0.0500				0.9990		0.9900
Iodomethane	0.3345 0.3067	0.3217	0.3218	0.3099	0.3218	Ave		0.3194				3.1		15.0			
Carbon disulfide	0.6715 0.5934	0.6342	0.6474	0.6080	0.6345	Ave		0.6315			0.1000	4.4		15.0			
3-Chloro-1-propene	0.2069 0.2371	0.2077	0.2045	0.2321	0.2138	Ave		0.2170				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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

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								
Methyl acetate	0.1779 0.1534	0.1693	0.1680	0.1613	0.1644	Ave		0.1657			0.1000	5.0		15.0			
Methylene Chloride	0.6426 0.2777	0.4499	0.3545	0.3043	0.2952	Lin1	0.3726	0.2709			0.1000				1.0000		0.9900
tert-Butyl alcohol	0.0136 0.0116	0.0147	0.0150	0.0131	0.0136	Ave		0.0136				9.0		15.0			
Acrylonitrile	0.0847 0.0823	0.0851	0.0855	0.0828	0.0864	Ave		0.0845				1.9		15.0			
Methyl tert-butyl ether	0.7818 0.7518	0.7418	0.7536	0.7421	0.7655	Ave		0.7561			0.1000	2.0		15.0			
trans-1,2-Dichloroethene	0.3365 0.3408	0.3569	0.3346	0.3244	0.3360	Ave		0.3382			0.1000	3.2		15.0			
Hexane	0.0762 0.0766	0.0598	0.0671	0.0645	0.0737	Ave		0.0696				9.9		15.0			
1,1-Dichloroethane	0.6056 0.5830	0.5888	0.5696	0.5651	0.5776	Ave		0.5816			0.1000	2.5		15.0			
Vinyl acetate	0.3627 0.3916	0.3768	0.3727	0.3770	0.3992	Ave		0.3800				3.5		15.0			
2-Butanone (MEK)	0.1250 0.0817	0.1091	0.0981	0.0922	0.0921	Ave		0.0997			0.0500	15.0		15.0			
cis-1,2-Dichloroethene	0.3561 0.3596	0.3662	0.3520	0.3383	0.3552	Ave		0.3546			0.1000	2.6		15.0			
2,2-Dichloropropane	0.2818 0.2720	0.2813	0.2829	0.2800	0.2850	Ave		0.2805				1.6		15.0			
Bromochloromethane	0.1715 0.1642	0.1735	0.1628	0.1621	0.1680	Ave		0.1670				2.9		15.0			
Tetrahydrofuran	0.0869 0.0525	0.0780	0.0642	0.0580	0.0587	Lin1	0.0826	0.0535							0.9970		0.9900
Chloroform	0.5867 0.5596	0.5728	0.5619	0.5468	0.5587	Ave		0.5644				2.4		15.0			
1,1,1-Trichloroethane	0.4077 0.3721	0.3799	0.3770	0.3679	0.3781	Ave		0.3805			0.1000	3.7		15.0			
Cyclohexane	0.3808 0.3926	0.3531	0.3729	0.3685	0.3974	Ave		0.3776			0.1000	4.3		15.0			
1,1-Dichloropropene	0.3946 0.4255	0.4049	0.4141	0.4058	0.4235	Ave		0.4114				2.9		15.0			
Carbon tetrachloride	0.3229 0.3207	0.2836	0.3021	0.2959	0.3098	Ave		0.3058			0.1000	4.9		15.0			
Isobutyl alcohol	0.0069 0.0066	0.0077	0.0082	0.0079	0.0084	Ave		0.0076				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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

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-Dichloroethane	0.4281 0.3985	0.4083	0.4131	0.4007	0.4073	Ave		0.4093			0.1000	2.6		15.0			
Benzene	1.4149 1.3951	1.3495	1.3371	1.3334	1.3754	Ave		1.3676			0.5000	2.4		15.0			
n-Heptane	0.0685 0.0772	0.0613	0.0662	0.0649	0.0726	Ave		0.0685				8.3		15.0			
Trichloroethene	0.3839 0.3569	0.3769	0.3577	0.3413	0.3505	Ave		0.3612			0.2000	4.5		15.0			
Methylcyclohexane	0.3973 0.4179	0.3427	0.3842	0.3679	0.4109	Ave		0.3868			0.1000	7.3		15.0			
1,2-Dichloropropane	0.3355 0.3205	0.3288	0.3246	0.3133	0.3241	Ave		0.3245			0.1000	2.3		15.0			
Dibromomethane	0.1733 0.1591	0.1642	0.1617	0.1621	0.1665	Ave		0.1645				3.0		15.0			
1,4-Dioxane	+++++ 0.0015	0.0021	0.0022	0.0023	0.0020	Ave		0.0020				15.0		15.0			
Bromodichloromethane	0.4106 0.4017	0.3809	0.3956	0.3804	0.3999	Ave		0.3949			0.1000	3.0		15.0			
2-Chloroethyl vinyl ether	0.1518 0.1626	0.1468	0.1636	0.1614	0.1724	Ave		0.1598				5.7		15.0			
cis-1,3-Dichloropropene	0.4652 0.4834	0.4584	0.4616	0.4577	0.4840	Ave		0.4684			0.1500	2.6		15.0			
4-Methyl-2-pentanone (MIBK)	0.1727 0.1647	0.1698	0.1731	0.1731	0.1788	Ave		0.1720			0.0500	2.7		15.0			
Toluene	2.1677 2.2283	2.1620	2.1758	2.2372	2.3381	Ave		2.2182			0.4000	3.0		15.0			
trans-1,3-Dichloropropene	0.5348 0.6030	0.5671	0.5776	0.6073	0.6492	Ave		0.5899			0.1000	6.6		15.0			
Ethyl methacrylate	0.3844 0.4450	0.3904	0.4185	0.4580	0.4866	Ave		0.4305				9.3		15.0			
1,1,2-Trichloroethane	0.4010 0.3669	0.3983	0.3851	0.3868	0.4095	Ave		0.3913			0.1000	3.8		15.0			
1,3-Dichloropropane	0.7105 0.6662	0.7253	0.7027	0.7139	0.7281	Ave		0.7078				3.2		15.0			
Tetrachloroethene	0.4291 0.3801	0.4070	0.3868	0.3974	0.4071	Ave		0.4012			0.2000	4.3		15.0			
2-Hexanone	0.1670 0.1546	0.1627	0.1698	0.1805	0.1872	Ave		0.1703			0.0500	7.0		15.0			
Chlorodibromomethane	0.3912 0.3897	0.3813	0.3815	0.3944	0.4136	Ave		0.3920				3.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

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-Dibromoethane	0.3334 0.3201	0.3459	0.3398	0.3496	0.3572	Ave		0.3410				3.8		15.0			
Chlorobenzene	1.2519 1.1170	1.2086	1.1808	1.1648	1.2077	Ave		1.1885			0.3000	3.9		15.0			
1,1,1,2-Tetrachloroethane	0.4062 0.3771	0.3897	0.3829	0.3977	0.4114	Ave		0.3942				3.4		15.0			
Ethylbenzene	0.5795 0.6016	0.5998	0.5878	0.6160	0.6480	Ave		0.6055				4.0		15.0			
m-Xylene & p-Xylene	0.6669 0.7004	0.6615	0.6980	0.7351	0.7623	Ave		0.7041				5.5		15.0			
o-Xylene	0.6205 0.6279	0.6346	0.6267	0.6456	0.6754	Ave		0.6385				3.1		15.0			
Styrene	0.8568 1.0173	0.9222	0.9458	1.0017	1.0627	Ave		0.9678			0.3000	7.7		15.0			
Bromoform	0.1699 0.1791	0.1693	0.1783	0.1741	0.1966	Ave		0.1779			0.1000	5.6		15.0			
Isopropylbenzene	1.3201 1.4450	1.3300	1.4175	1.4256	1.5285	Ave		1.4111			0.1000	5.5		15.0			
1,1,2,2-Tetrachloroethane	0.7592 0.6885	0.7625	0.7597	0.7110	0.7366	Ave		0.7363			0.3000	4.2		15.0			
Bromobenzene	0.9946 0.9468	0.9685	0.9260	0.9042	0.9773	Ave		0.9529				3.5		15.0			
1,2,3-Trichloropropane	0.2695 0.2244	0.2591	0.2428	0.2265	0.2374	Ave		0.2433				7.4		15.0			
trans-1,4-Dichloro-2-butene	0.1731 0.1916	0.1893	0.1966	0.1963	0.2068	Ave		0.1923				5.8		15.0			
N-Propylbenzene	0.8976 0.9570	0.8687	0.8774	0.8974	0.9379	Ave		0.9060				3.8		15.0			
2-Chlorotoluene	0.8166 0.8338	0.7820	0.8383	0.8021	0.8496	Ave		0.8204				3.1		15.0			
1,3,5-Trimethylbenzene	2.2916 2.7765	2.2492	2.3690	2.5191	2.6873	Ave		2.4821				8.7		15.0			
4-Chlorotoluene	0.8089 0.8967	0.8568	0.8597	0.8595	0.9053	Ave		0.8645				4.0		15.0			
tert-Butylbenzene	2.1661 2.3969	2.3599	2.1022	2.1917	2.3248	Ave		2.2569				5.3		15.0			
1,2,4-Trimethylbenzene	2.4311 2.9407	2.4215	2.5588	2.6801	2.8660	Ave		2.6497				8.3		15.0			
sec-Butylbenzene	2.6646 3.2011	2.6612	2.8175	2.8681	3.0917	Ave		2.8840				7.7		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

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								
1,3-Dichlorobenzene	1.8713 1.7463	1.7073	1.6883	1.6485	1.7206	Ave		1.7304			0.6000	4.4		15.0			
4-Isopropyltoluene	2.2825 2.9499	2.3025	2.4392	2.5815	2.8509	Ave		2.5677				11.0		15.0			
1,4-Dichlorobenzene	1.7920 1.7831	1.8163	1.7524	1.7032	1.8035	Ave		1.7751			0.5000	2.3		15.0			
n-Butylbenzene	2.0733 2.4379	1.9925	2.0182	2.0656	2.3292	Ave		2.1528				8.6		15.0			
1,2-Dichlorobenzene	1.7655 1.6956	1.6883	1.6898	1.6553	1.7192	Ave		1.7023			0.4000	2.2		15.0			
1,2-Dibromo-3-Chloropropane	0.1217 0.1260	0.1365	0.1372	0.1340	0.1419	Ave		0.1329			0.0500	5.7		15.0			
1,2,4-Trichlorobenzene	1.0068 0.8834	1.0134	0.9036	0.9251	0.9523	Ave		0.9474			0.2000	5.7		15.0			
Hexachlorobutadiene	0.5077 0.3955	0.4713	0.4354	0.4314	0.4388	Ave		0.4467				8.6		15.0			
Naphthalene	1.8883 1.8689	1.8140	1.9094	1.9660	2.1051	Ave		1.9253				5.3		15.0			
1,2,3-Trichlorobenzene	0.8531 0.7055	0.8763	0.7997	0.8429	0.8405	Ave		0.8197				7.5		15.0			
Dibromofluoromethane (Surr)	0.2959 0.3016	0.3105	0.2989	0.2924	0.3029	Ave		0.3003				2.1		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3663 0.3325	0.3681	0.3610	0.3557	0.3485	Ave		0.3553				3.7		15.0			
Toluene-d8 (Surr)	1.9117 1.9655	2.0232	1.9515	1.9942	2.0890	Ave		1.9892				3.1		15.0			
4-Bromofluorobenzene (Surr)	0.3950 0.4108	0.4133	0.4153	0.4186	0.4467	Ave		0.4166				4.1		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-145573/7	UXJ0627.D
Level 2	STD8260 240-145573/6	UXJ0626.D
Level 3	STD8260 240-145573/5	UXJ0625.D
Level 4	STD8260 240-145573/4	UXJ0624.D
Level 5	STD8260 240-145573/3	UXJ0623.D
Level 6	STD8260 240-145573/2	UXJ0622.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	31743 1482841	58610	155711	331818	705560	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	39086 1486153	72776	177010	358805	730669	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	38577 1605228	73271	183652	376915	784535	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	16776 807004	33851	81239	174063	385123	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	20700 926836	39786	97061	208677	443727	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	39605 1882740	82234	191344	404757	892440	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	38799 1716254	71473	185584	406424	855101	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	42035 1687685	80800	197500	410950	827804	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	20078 793176	36258	93107	197876	414024	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	37345 1574392	70518	176200	369686	770592	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	22183 932060	36872	98049	197869	439682	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Qua	46327 690797	69949	117389	214821	413385	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	49376 2078665	93773	240056	499871	1041714	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	99108 4022016	184853	483004	980527	2053870	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	30540 1607439	60547	152596	374308	692043	1.00 40.0	2.00	5.00	10.0	20.0
Methyl acetate	FB	Ave	131297 5199515	246690	626718	1301078	2660562	5.00 200	10.0	25.0	50.0	100

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methylene Chloride	FB	Lin1	94855 1882017	131146	264450	490859	955527	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butyl alcohol	FB	Ave	20111 783780	42824	111867	211326	440217	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	125079 5579222	248097	637808	1336132	2795278	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	115401 5095918	216226	562244	1196792	2477596	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	49670 2309942	104040	249657	523140	1087670	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	11248 519469	17431	50027	103964	238392	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	89381 3951806	171615	424950	911364	1869684	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	51398 2548161	105443	266919	583640	1240543	0.960 38.4	1.92	4.80	9.60	19.2
2-Butanone (MEK)	FB	Ave	36891 1107193	63585	146381	297250	596060	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	52566 2437331	106729	262632	545638	1149789	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	41594 1843507	82006	211067	451547	922563	1.00 40.0	2.00	5.00	10.0	20.0
Bromochloromethane	FB	Ave	25315 1113323	50579	121439	261386	543789	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Lin1	25649 712125	45453	95752	186976	379697	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	86595 3792953	166947	419161	881961	1808401	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	60173 2522123	110720	281264	593434	1223914	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	56211 2661181	102921	278232	594301	1286420	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	58248 2884089	118026	308964	654541	1370871	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	47659 2173493	82671	225397	477298	1002671	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBZ	Ave	15913 702426	34309	95484	189706	403474	25.0 1000	50.0	125	250	500
1,2-Dichloroethane	FB	Ave	63194 2701145	118999	308192	646185	1318368	1.00 40.0	2.00	5.00	10.0	20.0
Benzene	FB	Ave	208847 9456176	393355	997506	2150459	4451727	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Heptane	FB	Ave	10115 523384	17870	49414	104687	235038	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	56660 2418922	109867	266865	550454	1134496	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	58650 2832954	99881	286620	593293	1330071	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	49520 2172733	95832	242166	505347	1049011	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	25579 1078705	47870	120617	261499	538795	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	+++++ 203837	12512	32840	73350	128430	+++++ 800	40.0	100	200	400
Bromodichloromethane	FB	Ave	60610 2722978	111011	295165	613595	1294283	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	44799 2204388	85579	244102	520650	1116033	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	68666 3276426	133616	344351	738203	1566610	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	50987 2232308	99012	258253	558383	1157627	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	198933 9416846	385294	1008626	2158645	4491292	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	49084 2548333	101073	267772	585979	1247006	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	35281 1880703	69578	193983	441887	934740	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	36799 1550630	70982	178508	373197	786642	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	65207 2815287	129265	325759	688862	1398620	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	39379 1606504	72524	179284	383457	782041	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	30659 1307093	57996	157420	348399	719096	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Ave	35905 1647010	67956	176827	380529	794533	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	30597 1352774	61649	157501	337282	686183	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	114895 4720464	215379	547362	1123893	2319897	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	37274 1593757	69451	177484	383765	790340	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethylbenzene	CBZ	Ave	53185 2542607	106887	272462	594367	1244778	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	61206 2960115	117892	323557	709304	1464364	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	56945 2653430	113095	290535	622923	1297407	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	78630 4299379	164339	438436	966540	2041365	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	15592 757094	30173	82664	167974	377638	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	121152 6106473	237019	657115	1375567	2936152	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	26255 1130835	52371	138435	273446	577094	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	34397 1555009	66520	168738	347732	765631	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	9320 368609	17798	44236	87116	185996	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	5987 314735	13002	35830	75503	161992	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	31043 1571766	59670	159874	345134	734754	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	28240 1369349	53712	152760	308471	665553	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	79251 4560130	154490	431692	968806	2105317	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	27974 1472754	58851	156651	330562	709252	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	74911 3936567	162089	383059	842911	1821313	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	84073 4829767	166323	466268	1030710	2245250	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	92150 5257490	182787	513403	1103050	2422058	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	64715 2868073	117269	307647	633988	1347928	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	78936 4844840	158147	444471	992791	2233460	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	61973 2928561	124753	319329	655010	1412860	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	71701 4003965	136857	367760	794382	1824704	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 09:56 Calibration End Date: 09/04/2014 11:48 Calibration ID: 24057

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	61057 2784839	115961	307915	636599	1346881	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	4208 206936	9373	24995	51521	111146	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	34818 1450894	69607	164664	355775	746036	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	17556 649556	32371	79347	165895	343774	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	65304 3069423	124596	347926	756082	1649138	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	29504 1158700	60191	145728	324177	658472	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	43671 2044310	90510	222953	471544	980264	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	54060 2253799	107282	269315	573686	1127942	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	175444 8306310	360566	904659	1924172	4012811	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	36248 1736234	73653	192518	403888	858098	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 12:11 Calibration End Date: 09/04/2014 14:04 Calibration ID: 24059

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-145573/13	UXJ0633.D
Level 2	STD2 240-145573/12	UXJ0632.D
Level 3	STD3 240-145573/11	UXJ0631.D
Level 4	STD4 240-145573/10	UXJ0630.D
Level 5	STD5 240-145573/9	UXJ0629.D
Level 6	STD6 240-145573/8	UXJ0628.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								
Acetonitrile	0.0306 0.0215	0.0234	0.0222	0.0222	0.0229	Ave		0.0238				14.0		15.0			
Diisopropyl ether	0.2937 0.2949	0.2698	0.2934	0.2864	0.3005	Ave		0.2898				3.7		15.0			
2-Chloro-1,3-butadiene	0.4659 0.4848	0.4509	0.4774	0.4498	0.4840	Ave		0.4688				3.4		15.0			
Ethyl tert-butyl ether	0.8747 0.8768	0.8158	0.8545	0.8263	0.8806	Ave		0.8548				3.3		15.0			
Ethyl acetate	0.1093 0.0738	0.0874	0.0836	0.0773	0.0764	Ave		0.0846				15.0		15.0			
Propionitrile	0.0322 0.0293	0.0301	0.0301	0.0278	0.0299	Ave		0.0299				4.7		15.0			
Methacrylonitrile	0.1477 0.1509	0.1433	0.1472	0.1435	0.1514	Ave		0.1473				2.3		15.0			
Tert-amyl methyl ether	0.7665 0.8080	0.7235	0.7731	0.7532	0.8098	Ave		0.7723				4.3		15.0			
n-Butanol	0.0055 0.0055	0.0061	0.0062	0.0059	0.0066	Ave		0.0060				6.9		15.0			
Ethyl acrylate	0.2639 0.2909	0.2547	0.2716	0.2733	0.2923	Ave		0.2745				5.4		15.0			
Methyl methacrylate	0.1953 0.2127	0.1847	0.2002	0.1976	0.2117	Ave		0.2004				5.3		15.0			
2-Nitropropane	0.0559 0.0551	0.0523	0.0509	0.0516	0.0538	Ave		0.0533				3.8		15.0			
1-Chlorohexane	0.4438 0.5017	0.4413	0.4597	0.4406	0.5020	Ave		0.4648				6.4		15.0			
Cyclohexanone	0.0203 0.0200	0.0216	0.0230	0.0195	0.0223	Ave		0.0211				6.6		15.0			
1,2,3-Trimethylbenzene	2.4733 3.0223	2.3371	2.6769	2.5910	3.0652	Ave		2.6943				11.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 12:11 Calibration End Date: 09/04/2014 14:04 Calibration ID: 24059

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								
1,3,5-Trichlorobenzene	1.1785 1.1351	1.1264	1.2015	1.1129	1.2304	Ave		1.1641				4.0		15.0			
2-Methylnaphthalene	0.4231 0.4761	0.4158	0.4191	0.4653	0.5445	Ave		0.4573				11.0		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 12:11 Calibration End Date: 09/04/2014 14:04 Calibration ID: 24059

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-145573/13	UXJ0633.D
Level 2	STD2 240-145573/12	UXJ0632.D
Level 3	STD3 240-145573/11	UXJ0631.D
Level 4	STD4 240-145573/10	UXJ0630.D
Level 5	STD5 240-145573/9	UXJ0629.D
Level 6	STD6 240-145573/8	UXJ0628.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	43405 1319839	67007	162536	336842	705565	10.0 400	20.0	50.0	100	200
Diisopropyl ether	FB	Ave	41645 1813400	77213	214759	434002	926840	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	66065 2981464	129030	349431	681721	1493053	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	124024 5391628	233464	625419	1252233	2716331	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	30984 907114	50017	122382	234353	471613	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	45605 1801762	86192	220655	421989	923505	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	209412 9281024	410198	1077585	2175518	4668670	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	108683 4968628	207052	565852	1141480	2497920	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	CBZ	Ave	11873 529776	26990	68863	136380	312270	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	37417 1789079	72879	198795	414255	901654	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	55376 2616373	105725	293095	598798	1305703	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	15854 678075	29916	74502	156551	332014	2.00 80.0	4.00	10.0	20.0	40.0
1-Chlorohexane	CBZ	Ave	38087 1925342	78531	205487	404822	949341	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Ave	6206 281497	12964	35786	65617	148453	10.0 400	20.0	50.0	100	200
1,2,3-Trimethylbenzene	DCB	Ave	75700 4246226	140582	415933	871182	2037154	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	36069 1594794	67755	186687	374216	817776	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42183-1 Analy Batch No.: 145573

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/04/2014 12:11 Calibration End Date: 09/04/2014 14:04 Calibration ID: 24059

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methylnaphthalene	DCB	Ave	25897 1337879	50022	130228	312909	723801	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:
Ave = Average ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Lab Sample ID: ICV 240-145573/14 Calibration Date: 09/04/2014 14:30

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ0634.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	0.2112	0.2128	0.1000	0.0101	0.0100	0.7	20.0
Chloromethane	Ave	0.2365	0.2283	0.1000	0.00965	0.0100	-3.5	20.0
Vinyl chloride	Ave	0.2453	0.2438	0.1000	0.00994	0.0100	-0.6	20.0
Bromomethane	Ave	0.1141	0.1150	0.0500	0.0101	0.0100	0.7	20.0
Chloroethane	Ave	0.1350	0.1338	0.0500	0.00991	0.0100	-0.9	20.0
Dichlorofluoromethane	Ave	0.2686	0.2586		0.00963	0.0100	-3.7	20.0
Trichlorofluoromethane	Ave	0.2544	0.2587	0.1000	0.0102	0.0100	1.7	20.0
Ethyl ether	Ave	0.2644	0.2719		0.0103	0.0100	2.8	20.0
Acrolein	Ave	0.0251	0.0410		0.0817	0.0500	63.3*	20.0
1,1-Dichloroethene	Ave	0.2384	0.2538	0.1000	0.0106	0.0100	6.5	20.0
1,1,2-Trichlorotrifluoroethane	Ave	0.1340	0.1382	0.0500	0.0103	0.0100	3.1	20.0
Acetone	Qua		0.0663	0.0500	0.0184	0.0200	-7.9	20.0
Iodomethane	Ave	0.3194	0.3761		0.0118	0.0100	17.7	20.0
Carbon disulfide	Ave	0.6315	0.7194	0.1000	0.0114	0.0100	13.9	20.0
3-Chloro-1-propene	Ave	0.2170	0.2144		0.00988	0.0100	-1.2	20.0
Methyl acetate	Ave	0.1657	0.1669	0.1000	0.0504	0.0500	0.7	20.0
Methylene Chloride	Lin1		0.3160	0.1000	0.0103	0.0100	2.9	20.0
tert-Butyl alcohol	Ave	0.0136	0.0133		0.0981	0.100	-1.9	20.0
Acrylonitrile	Ave	0.0845	0.0867		0.103	0.100	2.7	20.0
Methyl tert-butyl ether	Ave	0.7561	0.7775	0.1000	0.0103	0.0100	2.8	20.0
trans-1,2-Dichloroethene	Ave	0.3382	0.3540	0.1000	0.0105	0.0100	4.7	20.0
Hexane	Ave	0.0696	0.0716		0.0103	0.0100	2.9	20.0
1,1-Dichloroethane	Ave	0.5816	0.6142	0.1000	0.0106	0.0100	5.6	20.0
Vinyl acetate	Ave	0.3800	0.3553		0.00748	0.00800	-6.5	20.0
2-Butanone (MEK)	Ave	0.0997	0.0943	0.0500	0.0189	0.0200	-5.4	20.0
cis-1,2-Dichloroethene	Ave	0.3546	0.3616	0.1000	0.0102	0.0100	2.0	20.0
2,2-Dichloropropane	Ave	0.2805	0.2964		0.0106	0.0100	5.7	20.0
Bromochloromethane	Ave	0.1670	0.1692		0.0101	0.0100	1.3	20.0
Tetrahydrofuran	Lin1		0.0582		0.0202	0.0200	1.2	20.0
Chloroform	Ave	0.5644	0.5786	0.2000	0.0103	0.0100	2.5	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.3977	0.1000	0.0105	0.0100	4.5	20.0
Cyclohexane	Ave	0.3776	0.3927	0.1000	0.0104	0.0100	4.0	20.0
1,1-Dichloropropene	Ave	0.4114	0.4719		0.0115	0.0100	14.7	20.0
Carbon tetrachloride	Ave	0.3058	0.3272	0.1000	0.0107	0.0100	7.0	20.0
Isobutyl alcohol	Ave	0.0076	0.0075		0.245	0.250	-2.2	20.0
1,2-Dichloroethane	Ave	0.4093	0.4235	0.1000	0.0103	0.0100	3.5	20.0
Benzene	Ave	1.368	1.399	0.5000	0.0102	0.0100	2.3	20.0
n-Heptane	Ave	0.0685	0.0710		0.0104	0.0100	3.7	20.0
Trichloroethene	Ave	0.3612	0.3708	0.2000	0.0103	0.0100	2.6	20.0
Methylcyclohexane	Ave	0.3868	0.3961	0.1000	0.0102	0.0100	2.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Lab Sample ID: ICV 240-145573/14 Calibration Date: 09/04/2014 14:30

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ0634.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-Dichloropropane	Ave	0.3245	0.3333	0.1000	0.0103	0.0100	2.7	20.0
Dibromomethane	Ave	0.1645	0.1761		0.0107	0.0100	7.1	20.0
1,4-Dioxane	Ave	0.0020	0.0017		0.169	0.200	-15.6	20.0
Bromodichloromethane	Ave	0.3949	0.4007	0.1000	0.0101	0.0100	1.5	20.0
2-Chloroethyl vinyl ether	Ave	0.1598	0.1630		0.0122	0.0120	2.0	20.0
cis-1,3-Dichloropropene	Ave	0.4684	0.5013	0.1500	0.0107	0.0100	7.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1720	0.1790	0.0500	0.0208	0.0200	4.1	20.0
Toluene	Ave	2.218	2.339	0.4000	0.0105	0.0100	5.4	20.0
trans-1,3-Dichloropropene	Ave	0.5899	0.6935	0.1000	0.0118	0.0100	17.6	20.0
Ethyl methacrylate	Ave	0.4305	0.5031		0.0117	0.0100	16.9	20.0
1,1,2-Trichloroethane	Ave	0.3913	0.4030	0.1000	0.0103	0.0100	3.0	20.0
1,3-Dichloropropane	Ave	0.7078	0.7382		0.0104	0.0100	4.3	20.0
Tetrachloroethene	Ave	0.4012	0.4096	0.2000	0.0102	0.0100	2.1	20.0
2-Hexanone	Ave	0.1703	0.1771	0.0500	0.0208	0.0200	4.0	20.0
Chlorodibromomethane	Ave	0.3920	0.4099		0.0105	0.0100	4.6	20.0
1,2-Dibromoethane	Ave	0.3410	0.3553		0.0104	0.0100	4.2	20.0
Chlorobenzene	Ave	1.188	1.243	0.3000	0.0105	0.0100	4.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3942	0.4070		0.0103	0.0100	3.3	20.0
Ethylbenzene	Ave	0.6055	0.6431		0.0106	0.0100	6.2	20.0
m-Xylene & p-Xylene	Ave	0.7041	0.7621		0.0108	0.0100	8.2	20.0
o-Xylene	Ave	0.6385	0.6687		0.0105	0.0100	4.7	20.0
Styrene	Ave	0.9678	1.066	0.3000	0.0110	0.0100	10.1	20.0
Bromoform	Ave	0.1779	0.1858	0.1000	0.0104	0.0100	4.4	20.0
Isopropylbenzene	Ave	1.411	1.508	0.1000	0.0107	0.0100	6.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7363	0.7282	0.3000	0.00989	0.0100	-1.1	20.0
Bromobenzene	Ave	0.9529	0.9661		0.0101	0.0100	1.4	20.0
1,2,3-Trichloropropane	Ave	0.2433	0.2442		0.0100	0.0100	0.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1923	0.2006		0.0104	0.0100	4.3	20.0
N-Propylbenzene	Ave	0.9060	0.9331		0.0103	0.0100	3.0	20.0
2-Chlorotoluene	Ave	0.8204	0.8680		0.0106	0.0100	5.8	20.0
1,3,5-Trimethylbenzene	Ave	2.482	2.588		0.0104	0.0100	4.2	20.0
4-Chlorotoluene	Ave	0.8645	0.8890		0.0103	0.0100	2.8	20.0
tert-Butylbenzene	Ave	2.257	2.259		0.0100	0.0100	0.1	20.0
1,2,4-Trimethylbenzene	Ave	2.650	2.717		0.0103	0.0100	2.6	20.0
sec-Butylbenzene	Ave	2.884	2.990		0.0104	0.0100	3.7	20.0
1,3-Dichlorobenzene	Ave	1.730	1.710	0.6000	0.00988	0.0100	-1.2	20.0
4-Isopropyltoluene	Ave	2.568	2.676		0.0104	0.0100	4.2	20.0
1,4-Dichlorobenzene	Ave	1.775	1.823	0.5000	0.0103	0.0100	2.7	20.0
n-Butylbenzene	Ave	2.153	2.184		0.0101	0.0100	1.5	20.0
1,2-Dichlorobenzene	Ave	1.702	1.730	0.4000	0.0102	0.0100	1.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1329	0.1395	0.0500	0.0105	0.0100	5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Lab Sample ID: ICV 240-145573/14 Calibration Date: 09/04/2014 14:30

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ0634.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
1,2,4-Trichlorobenzene	Ave	0.9474	0.9102	0.2000	0.00961	0.0100	-3.9	20.0
Hexachlorobutadiene	Ave	0.4467	0.4097		0.00917	0.0100	-8.3	20.0
Naphthalene	Ave	1.925	1.889		0.00981	0.0100	-1.9	20.0
1,2,3-Trichlorobenzene	Ave	0.8197	0.7981		0.00974	0.0100	-2.6	20.0
Dibromofluoromethane (Surr)	Ave	0.3003	0.2916		0.00971	0.0100	-2.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3553	0.3411		0.00960	0.0100	-4.0	20.0
Toluene-d8 (Surr)	Ave	1.989	1.932		0.00971	0.0100	-2.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4166	0.4113		0.00987	0.0100	-1.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Lab Sample ID: ICV 240-145573/15 Calibration Date: 09/04/2014 14:53

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 12:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 14:04

Lab File ID: UXJ0635.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
Acetonitrile	Ave	0.0238	0.0233		0.0978	0.100	-2.2	20.0
Diisopropyl ether	Ave	0.2898	0.2975		0.0103	0.0100	2.7	20.0
2-Chloro-1,3-butadiene	Ave	0.4688	0.4744		0.0101	0.0100	1.2	20.0
Ethyl tert-butyl ether	Ave	0.8548	0.8596		0.0101	0.0100	0.6	20.0
Ethyl acetate	Ave	0.0846	0.1109		0.0262	0.0200	31.1*	20.0
Propionitrile	Ave	0.0299	0.0304		0.101	0.100	1.5	20.0
Methacrylonitrile	Ave	0.1473	0.1515		0.103	0.100	2.8	20.0
Tert-amyl methyl ether	Ave	0.7723	0.7933		0.0103	0.0100	2.7	20.0
n-Butanol	Ave	0.0060	0.0055		0.229	0.250	-8.4	20.0
Ethyl acrylate	Ave	0.2745	0.2819		0.0103	0.0100	2.7	20.0
Methyl methacrylate	Ave	0.2004	0.2062		0.0206	0.0200	2.9	20.0
2-Nitropropane	Ave	0.0533	0.0522		0.0196	0.0200	-2.1	20.0
1-Chlorohexane	Ave	0.4648	0.4776		0.0103	0.0100	2.7	20.0
Cyclohexanone	Ave	0.0211	0.0144		0.0683	0.100	-31.7*	20.0
1,2,3-Trimethylbenzene	Ave	2.694	2.667		0.00990	0.0100	-1.0	20.0
1,3,5-Trichlorobenzene	Ave	1.164	1.163		0.00999	0.0100	-0.0	20.0
2-Methylnaphthalene	Ave	0.4573	0.3707		0.0162	0.0200	-18.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Lab Sample ID: CCVIS 240-148222/2 Calibration Date: 09/23/2014 10:28

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ1078.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	0.2112	0.2464		0.0117	0.0100	16.7	20.0
Chloromethane	Ave	0.2365	0.2605		0.0110	0.0100	10.1	20.0
Vinyl chloride	Ave	0.2453	0.2749		0.0112	0.0100	12.1	20.0
Bromomethane	Ave	0.1141	0.1323		0.0116	0.0100	15.9	20.0
Chloroethane	Ave	0.1350	0.1495		0.0111	0.0100	10.8	20.0
Dichlorofluoromethane	Ave	0.2686	0.2711		0.0101	0.0100	1.0	20.0
Trichlorofluoromethane	Ave	0.2544	0.2864		0.0113	0.0100	12.6	20.0
Ethyl ether	Ave	0.2644	0.2552		0.00965	0.0100	-3.5	20.0
Acrolein	Ave	0.0251	0.0228		0.0453	0.0500	-9.3	20.0
1,1-Dichloroethene	Ave	0.2384	0.2488		0.0104	0.0100	4.3	20.0
1,1,2-Trichlorotrifluoroethane	Ave	0.1340	0.1494		0.0111	0.0100	11.5	20.0
Acetone	Qua		0.0514		0.0135	0.0200	-32.7*	20.0
Iodomethane	Ave	0.3194	0.3469		0.0109	0.0100	8.6	20.0
Carbon disulfide	Ave	0.6315	0.6818		0.0108	0.0100	8.0	20.0
3-Chloro-1-propene	Ave	0.2170	0.2418		0.0111	0.0100	11.4	20.0
Methyl acetate	Ave	0.1657	0.1471		0.0444	0.0500	-11.3	20.0
Methylene Chloride	Lin1		0.3390		0.0111	0.0100	11.4	20.0
tert-Butyl alcohol	Ave	0.0136	0.0117		0.0858	0.100	-14.2	20.0
Acrylonitrile	Ave	0.0845	0.0834		0.0987	0.100	-1.3	20.0
Methyl tert-butyl ether	Ave	0.7561	0.7493		0.00991	0.0100	-0.9	20.0
trans-1,2-Dichloroethene	Ave	0.3382	0.3729		0.0110	0.0100	10.3	20.0
Hexane	Ave	0.0696	0.0819		0.0118	0.0100	17.7	20.0
1,1-Dichloroethane	Ave	0.5816	0.6112		0.0105	0.0100	5.1	20.0
Vinyl acetate	Ave	0.3800	0.3492		0.00882	0.00960	-8.1	20.0
2-Butanone (MEK)	Ave	0.0997	0.0773		0.0155	0.0200	-22.5*	20.0
2,2-Dichloropropane	Ave	0.2805	0.3003		0.0107	0.0100	7.1	20.0
cis-1,2-Dichloroethene	Ave	0.3546	0.3946		0.0111	0.0100	11.3	20.0
Bromochloromethane	Ave	0.1670	0.1807		0.0108	0.0100	8.2	20.0
Tetrahydrofuran	Lin1		0.0499		0.0171	0.0200	-14.4	20.0
Chloroform	Ave	0.5644	0.5670		0.0100	0.0100	0.5	20.0
1,1,1-Trichloroethane	Ave	0.3805	0.4143		0.0109	0.0100	8.9	20.0
Cyclohexane	Ave	0.3776	0.4150		0.0110	0.0100	9.9	20.0
1,1-Dichloropropene	Ave	0.4114	0.4345		0.0106	0.0100	5.6	20.0
Carbon tetrachloride	Ave	0.3058	0.3653		0.0119	0.0100	19.4	20.0
Isobutyl alcohol	Ave	0.0076	0.0064		0.210	0.250	-16.1	20.0
1,2-Dichloroethane	Ave	0.4093	0.3740		0.00914	0.0100	-8.6	20.0
Benzene	Ave	1.368	1.516		0.0111	0.0100	10.9	20.0
n-Heptane	Ave	0.0685	0.0741		0.0108	0.0100	8.3	20.0
Trichloroethene	Ave	0.3612	0.3856		0.0107	0.0100	6.8	20.0
Methylcyclohexane	Ave	0.3868	0.4262		0.0110	0.0100	10.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Lab Sample ID: CCVIS 240-148222/2 Calibration Date: 09/23/2014 10:28

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ1078.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-Dichloropropane	Ave	0.3245	0.3506		0.0108	0.0100	8.0	20.0
1,4-Dioxane	Ave	0.0020	0.0018		0.181	0.200	-9.3	20.0
Dibromomethane	Ave	0.1645	0.1641		0.00998	0.0100	-0.2	20.0
Bromodichloromethane	Ave	0.3949	0.4050		0.0103	0.0100	2.6	20.0
2-Chloroethyl vinyl ether	Ave	0.1598	0.1021		0.0128	0.0200	-36.1*	20.0
cis-1,3-Dichloropropene	Ave	0.4684	0.4827		0.0103	0.0100	3.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1720	0.1453		0.0169	0.0200	-15.6	20.0
Toluene	Ave	2.218	2.320		0.0105	0.0100	4.6	20.0
trans-1,3-Dichloropropene	Ave	0.5899	0.5520		0.00936	0.0100	-6.4	20.0
Ethyl methacrylate	Ave	0.4305	0.3948		0.00917	0.0100	-8.3	20.0
1,1,2-Trichloroethane	Ave	0.3913	0.3817		0.00975	0.0100	-2.5	20.0
1,3-Dichloropropane	Ave	0.7078	0.6682		0.00944	0.0100	-5.6	20.0
Tetrachloroethene	Ave	0.4012	0.4401		0.0110	0.0100	9.7	20.0
2-Hexanone	Ave	0.1703	0.1319		0.0155	0.0200	-22.6*	20.0
Chlorodibromomethane	Ave	0.3920	0.3895		0.00994	0.0100	-0.6	20.0
1,2-Dibromoethane	Ave	0.3410	0.3223		0.00945	0.0100	-5.5	20.0
Chlorobenzene	Ave	1.188	1.176		0.00989	0.0100	-1.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3942	0.3994		0.0101	0.0100	1.3	20.0
Ethylbenzene	Ave	0.6055	0.6119		0.0101	0.0100	1.1	20.0
m-Xylene & p-Xylene	Ave	0.7041	0.7353		0.0104	0.0100	4.4	20.0
o-Xylene	Ave	0.6385	0.6180		0.00968	0.0100	-3.2	20.0
Styrene	Ave	0.9678	0.9746		0.0101	0.0100	0.7	20.0
Bromoform	Ave	0.1779	0.1709		0.00960	0.0100	-4.0	20.0
Isopropylbenzene	Ave	1.411	1.354		0.00959	0.0100	-4.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7363	0.5747		0.00781	0.0100	-21.9*	20.0
Bromobenzene	Ave	0.9529	0.8957		0.00940	0.0100	-6.0	20.0
1,2,3-Trichloropropane	Ave	0.2433	0.1910		0.00785	0.0100	-21.5*	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1923	0.1129		0.00587	0.0100	-41.3*	20.0
N-Propylbenzene	Ave	0.9060	0.8153		0.00900	0.0100	-10.0	20.0
2-Chlorotoluene	Ave	0.8204	0.7318		0.00892	0.0100	-10.8	20.0
1,3,5-Trimethylbenzene	Ave	2.482	2.183		0.00880	0.0100	-12.0	20.0
4-Chlorotoluene	Ave	0.8645	0.7821		0.00905	0.0100	-9.5	20.0
tert-Butylbenzene	Ave	2.257	1.942		0.00860	0.0100	-14.0	20.0
1,2,4-Trimethylbenzene	Ave	2.650	2.343		0.00884	0.0100	-11.6	20.0
sec-Butylbenzene	Ave	2.884	2.549		0.00884	0.0100	-11.6	20.0
1,3-Dichlorobenzene	Ave	1.730	1.597		0.00923	0.0100	-7.7	20.0
4-Isopropyltoluene	Ave	2.568	2.287		0.00891	0.0100	-10.9	20.0
1,4-Dichlorobenzene	Ave	1.775	1.643		0.00926	0.0100	-7.4	20.0
n-Butylbenzene	Ave	2.153	1.800		0.00836	0.0100	-16.4	20.0
1,2-Dichlorobenzene	Ave	1.702	1.519		0.00892	0.0100	-10.8	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1329	0.1079		0.00812	0.0100	-18.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Lab Sample ID: CCVIS 240-148222/2 Calibration Date: 09/23/2014 10:28

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 09:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 11:48

Lab File ID: UXJ1078.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
1,2,4-Trichlorobenzene	Ave	0.9474	0.7705		0.00813	0.0100	-18.7	20.0
Hexachlorobutadiene	Ave	0.4467	0.4383		0.00981	0.0100	-1.9	20.0
Naphthalene	Ave	1.925	1.366		0.00709	0.0100	-29.1*	20.0
1,2,3-Trichlorobenzene	Ave	0.8197	0.6686		0.00816	0.0100	-18.4	20.0
Dibromofluoromethane (Surr)	Ave	0.3003	0.2533		0.00703	0.00834	-15.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3553	0.2458		0.00577	0.00834	-30.8*	20.0
Toluene-d8 (Surr)	Ave	1.989	1.670		0.00700	0.00834	-16.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4166	0.3520		0.00705	0.00834	-15.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Lab Sample ID: CCV 240-148222/3 Calibration Date: 09/23/2014 11:13

Instrument ID: A3UX11 Calib Start Date: 09/04/2014 12:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/04/2014 14:04

Lab File ID: UXJ1080.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
Acetonitrile	Ave	0.0238	0.0232		0.0975	0.100	-2.5	20.0
Diisopropyl ether	Ave	0.2898	0.3146		0.0109	0.0100	8.6	20.0
2-Chloro-1,3-butadiene	Ave	0.4688	0.4677		0.00998	0.0100	-0.2	20.0
Ethyl tert-butyl ether	Ave	0.8548	0.8827		0.0103	0.0100	3.3	20.0
Ethyl acetate	Ave	0.0846	0.0718		0.0170	0.0200	-15.1	20.0
Propionitrile	Ave	0.0299	0.0303		0.101	0.100	1.3	20.0
Methacrylonitrile	Ave	0.1473	0.1425		0.0967	0.100	-3.3	20.0
Tert-amyl methyl ether	Ave	0.7723	0.7922		0.0103	0.0100	2.6	20.0
n-Butanol	Ave	0.0060	0.0046		0.191	0.250	-23.6*	20.0
Ethyl acrylate	Ave	0.2745	0.2685		0.00978	0.0100	-2.2	20.0
Methyl methacrylate	Ave	0.2004	0.1845		0.0184	0.0200	-7.9	20.0
2-Nitropropane	Ave	0.0533	0.0431		0.0162	0.0200	-19.2	20.0
1-Chlorohexane	Ave	0.4648	0.4324		0.00930	0.0100	-7.0	20.0
Cyclohexanone	Ave	0.0211	0.0175		0.0827	0.100	-17.3	20.0
1,2,3-Trimethylbenzene	Ave	2.694	2.500		0.00928	0.0100	-7.2	20.0
1,3,5-Trichlorobenzene	Ave	1.164	1.100		0.00945	0.0100	-5.5	20.0
2-Methylnaphthalene	Ave	0.4573	0.3443		0.0151	0.0200	-24.7*	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42183-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-148222/7

Matrix: Water | Lab File ID: UXJ1084.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/23/2014 12:43

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.: 148222 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42183-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-148222/7

Matrix: Water | Lab File ID: UXJ1084.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/23/2014 12:43

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.: 148222 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-148222/7

Matrix: Water Lab File ID: UXJ1084.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/23/2014 12:43

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.: 148222 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	82		74-120
1868-53-7	Dibromofluoromethane (Surr)	90		75-121
460-00-4	4-Bromofluorobenzene (Surr)	73		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42183-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-148222/4

Matrix: Water | Lab File ID: UXJ1079.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/23/2014 10:50

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.: 148222 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	10.2		1.0	0.28
71-55-6	1,1,1-Trichloroethane	11.4		1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	8.55		1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	10.6		1.0	0.37
75-34-3	1,1-Dichloroethane	11.0		1.0	0.26
75-35-4	1,1-Dichloroethene	10.5		1.0	0.45
563-58-6	1,1-Dichloropropene	11.6		1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	8.78		1.0	0.37
96-18-4	1,2,3-Trichloropropane	8.66		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	8.70		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	9.19		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	8.92		2.0	0.82
95-50-1	1,2-Dichlorobenzene	9.62		1.0	0.17
107-06-2	1,2-Dichloroethane	9.23		1.0	0.20
78-87-5	1,2-Dichloropropane	11.2		1.0	0.22
541-73-1	1,3-Dichlorobenzene	9.47		1.0	0.17
142-28-9	1,3-Dichloropropane	9.36		1.0	0.18
106-46-7	1,4-Dichlorobenzene	9.79		1.0	0.16
594-20-7	2,2-Dichloropropane	11.3		1.0	0.26
78-93-3	2-Butanone (MEK)	15.9		10	4.1
110-75-8	2-Chloroethyl vinyl ether	8.11	J	10	1.2
95-49-8	2-Chlorotoluene	9.37		1.0	0.20
591-78-6	2-Hexanone	16.0		10	3.9
106-43-4	4-Chlorotoluene	9.48		1.0	0.22
99-87-6	4-Isopropyltoluene	9.04		1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	17.8		10	3.6
67-64-1	Acetone	14.5		10	3.4
71-43-2	Benzene	11.4		1.0	0.24
108-86-1	Bromobenzene	9.96		1.0	0.12
75-25-2	Bromoform	9.16		1.0	0.56
74-83-9	Bromomethane	10.2		1.0	0.63
75-15-0	Carbon disulfide	12.0		1.0	0.28
56-23-5	Carbon tetrachloride	12.6		1.0	0.17
108-90-7	Chlorobenzene	9.89		1.0	0.19
124-48-1	Chlorodibromomethane	9.60		1.0	0.43
75-00-3	Chloroethane	9.79		1.0	0.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-148222/4

Matrix: Water Lab File ID: UXJ1079.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/23/2014 10:50

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.: 148222 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	10.3		1.0	0.21
74-87-3	Chloromethane	9.21		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	11.1		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	10.9		1.0	0.46
74-95-3	Dibromomethane	10.3		1.0	0.17
74-97-5	Bromochloromethane	11.1		1.0	0.25
75-71-8	Dichlorodifluoromethane	8.71		1.0	0.50
75-27-4	Bromodichloromethane	10.4		1.0	0.15
75-65-0	tert-Butyl alcohol	88.2		50	8.7
100-41-4	Ethylbenzene	10.2		1.0	0.23
87-68-3	Hexachlorobutadiene	9.44		1.0	0.35
98-82-8	Isopropylbenzene	9.54		1.0	0.35
1634-04-4	Methyl tert-butyl ether	10.4		1.0	0.16
75-09-2	Methylene Chloride	11.5		1.0	0.28
179601-23-1	m-Xylene & p-Xylene	10.2		2.0	0.22
91-20-3	Naphthalene	8.04		1.0	0.45
104-51-8	n-Butylbenzene	8.64		1.0	0.22
103-65-1	N-Propylbenzene	9.48		1.0	0.40
95-47-6	o-Xylene	10.0		1.0	0.21
135-98-8	sec-Butylbenzene	9.16		1.0	0.48
100-42-5	Styrene	10.4		1.0	0.45
127-18-4	Tetrachloroethene	10.5		1.0	0.20
108-88-3	Toluene	10.4		1.0	0.22
156-60-5	trans-1,2-Dichloroethene	11.4		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	10.3		1.0	0.56
79-01-6	Trichloroethene	10.8		1.0	0.15
75-69-4	Trichlorofluoromethane	10.1		1.0	0.49
108-05-4	Vinyl acetate	6.92		2.0	0.41
75-01-4	Vinyl chloride	9.74		1.0	0.29
1330-20-7	Xylenes, Total	20.2		2.0	0.43
98-06-6	tert-Butylbenzene	8.89		1.0	0.41
106-93-4	1,2-Dibromoethane	9.78		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-148222/4

Matrix: Water Lab File ID: UXJ1079.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/23/2014 10:50

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.: 148222 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		74-120
1868-53-7	Dibromofluoromethane (Surr)	88		75-121
460-00-4	4-Bromofluorobenzene (Surr)	82		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	75		63-129

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Instrument ID: A3UX11 Start Date: 09/04/2014 09:27

Analysis Batch Number: 145573 End Date: 09/04/2014 21:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-145573/1		09/04/2014 09:27	1	BFB904.D	DB-624 0.18(mm)
STD8260 240-145573/2 IC		09/04/2014 09:56	1	UXJ0622.D	DB-624 0.18(mm)
STD8260 240-145573/3 IC		09/04/2014 10:19	1	UXJ0623.D	DB-624 0.18(mm)
STD8260 240-145573/4 ICIS		09/04/2014 10:41	1	UXJ0624.D	DB-624 0.18(mm)
STD8260 240-145573/5 IC		09/04/2014 11:03	1	UXJ0625.D	DB-624 0.18(mm)
STD8260 240-145573/6 IC		09/04/2014 11:25	1	UXJ0626.D	DB-624 0.18(mm)
STD8260 240-145573/7 IC		09/04/2014 11:48	1	UXJ0627.D	DB-624 0.18(mm)
STD6 240-145573/8 IC		09/04/2014 12:11	1	UXJ0628.D	DB-624 0.18(mm)
STD5 240-145573/9 IC		09/04/2014 12:33	1	UXJ0629.D	DB-624 0.18(mm)
STD4 240-145573/10 IC		09/04/2014 12:56	1	UXJ0630.D	DB-624 0.18(mm)
STD3 240-145573/11 IC		09/04/2014 13:18	1	UXJ0631.D	DB-624 0.18(mm)
STD2 240-145573/12 IC		09/04/2014 13:41	1	UXJ0632.D	DB-624 0.18(mm)
STD1 240-145573/13 IC		09/04/2014 14:04	1	UXJ0633.D	DB-624 0.18(mm)
ICV 240-145573/14		09/04/2014 14:30	1	UXJ0634.D	DB-624 0.18(mm)
ICV 240-145573/15		09/04/2014 14:53	1	UXJ0635.D	DB-624 0.18(mm)
ZZZZZ		09/04/2014 16:01	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 16:24	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 17:05	16.67		DB-624 0.18(mm)
ZZZZZ		09/04/2014 17:28	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 17:50	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 18:13	16.67		DB-624 0.18(mm)
ZZZZZ		09/04/2014 18:36	16.67		DB-624 0.18(mm)
ZZZZZ		09/04/2014 19:22	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 19:44	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 20:07	1		DB-624 0.18(mm)
ZZZZZ		09/04/2014 21:15	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42183-1

SDG No.:

Instrument ID: A3UX11 Start Date: 09/23/2014 10:00

Analysis Batch Number: 148222 End Date: 09/23/2014 17:57

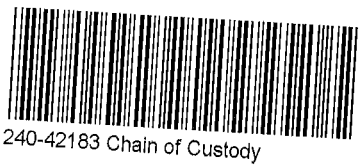
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-148222/1		09/23/2014 10:00	1	BFB923.D	DB-624 0.18(mm)
CCVIS 240-148222/2		09/23/2014 10:28	1	UXJ1078.D	DB-624 0.18(mm)
LCS 240-148222/4		09/23/2014 10:50	1	UXJ1079.D	DB-624 0.18(mm)
CCV 240-148222/3		09/23/2014 11:13	1	UXJ1080.D	DB-624 0.18(mm)
ZZZZZ		09/23/2014 11:35	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 11:58	1		DB-624 0.18(mm)
MB 240-148222/7		09/23/2014 12:43	1	UXJ1084.D	DB-624 0.18(mm)
240-42183-1	WSP-4-091914	09/23/2014 13:05	1	UXJ1085.D	DB-624 0.18(mm)
ZZZZZ		09/23/2014 13:28	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 14:13	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 14:36	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 14:58	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 15:20	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 15:42	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 16:05	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 16:27	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 16:50	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 17:12	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 17:35	1		DB-624 0.18(mm)
ZZZZZ		09/23/2014 17:57	1		DB-624 0.18(mm)

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

1 day TAT 2.0

Chain of Custody Record

TestAmerica

Client Information	Sampler: Stu Cameron	Lab PM: John McFadden	Carrier Tracking No(s):	COC No: 180-19478-4921.2
Client Contact: Mr. Stuart Cameron	Phone: (703) 342-8389	E-Mail: John.McFadden@testamericainc.com		Page: Page [redacted] 1 of 1
Company: Tetra Tech, Inc.		Analysis Requested		Job #: 112IC04770
Address: 20251 Century Blvd Suite 200	Due Date Requested:			Preservation Codes:
City: Germantown	TAT Requested (days): 1 day TAT			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: MD, 20874				
Phone: (301) 528-3002	PO #:			Other:
Email: Stuart.Cameron@TetraTech.com	WO #:			
Project Name: MRC Block E MPE System O&M	Project #: 112IC04770			
Site: MRC, Middle River, MD	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs - TCL	Metals (Cd, Cr, Cu, Pb, Hg, Ni, Ag, Zn)	VOCs - PP (TTO, volatile portion)	SVOCs - PP (With TCDD screen) (TTO, non-volatile)	Pesticides - PP (TTO, non-volatile)	PCBs - PP (TTO, non-volatile)	TPH (1664, as SGT-HEM)	pH, BOD, TSS (general chemistry)	COD, TKN, Total P (general chemistry)	Cyanides				Total Number of containers	Special Instructions/Note:
			Preservation Code:				1	D	N	N	N	N	S	N	S	B					
WSP-4-091914	9/19/14	1155	G	W			3														1 day TAT

Page 85 of 86

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological	[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Stuart Cameron	9-19-14 / 1400	Tetra Tech	Dakota Clarke	9/20/14 9:40	TA-Canton
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative Login # : 42183
Canton Facility

Client Tetratech Site Name

Cooler unpacked by: Dakota Thurman

Cooler Received on 9/20/14 Opened on 9/20/14

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +2 °C)	Observed Cooler Temp._____ °C	Corrected Cooler Temp._____ °C
IR GUN# 4	(CF -2 °C)	Observed Cooler Temp._____ °C	Corrected Cooler Temp._____ °C
IR GUN# 5	(CF 0 °C)	Observed Cooler Temp._____ °C	Corrected Cooler Temp._____ °C
IR GUN# 8	(CF 0 °C)	Observed Cooler Temp. 2.0 °C	Corrected Cooler Temp. 2.0 °C

☐ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity_____ Yes (No)
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No (NA)
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC412469
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: DT

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ 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 the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

9/26/2014 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-42438-1

Job Description: LM MRC Block E

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
10/6/2014 3:11 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
10/06/2014

cc: Samantha Brenner
Ms. Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: LM MRC Block E

Report Number: 240-42438-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 9/27/2014 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples WSP-1-092614 (240-42438-1), WSP-2-092614 (240-42438-2), WSP-3-092614 (240-42438-3), WSP-4-092614 (240-42438-4) and TB-092614 (240-42438-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 10/02/2014 and 10/03/2014.

Naphthalene was detected in method blank MB 240-149718/18 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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Sample WSP-1-092614 (240-42438-1)[5000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No MS/MSD in batch 149718 due to an incorrect sample dilution. The following samples were in the affected batch:TB-092614 (240-42438-5), WSP-2-092614 (240-42438-2), WSP-3-092614 (240-42438-3), WSP-4-092614 (240-42438-4)

The continuing calibration verification (CCV) for analytical batch 149984 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detects for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICP)

Samples WSP-1-092614 (240-42438-1), WSP-2-092614 (240-42438-2) and WSP-4-092614 (240-42438-4) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 09/30/2014 and analyzed on 10/01/2014.

Lead was detected in method blank MB 240-149343/1-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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples WSP-1-092614 (240-42438-1), WSP-2-092614 (240-42438-2) and WSP-4-092614 (240-42438-4) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 09/30/2014 and analyzed on 10/01/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Instrument ID: A3UX15 Analysis Batch Number: 149718

Lab Sample ID: STD8260 240-149718/4 ICIS Client Sample ID:

Date Analyzed: 10/02/14 09:24 Lab File ID: UXC4770.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	5.83	Poor Chromatography	evansle	10/02/14 13:54

Lab Sample ID: ICV 240-149718/14 Client Sample ID:

Date Analyzed: 10/02/14 13:26 Lab File ID: UXC4780.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	5.84	Poor Chromatography	evansle	10/02/14 13:58

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-42438-1	WSP-1-092614	Water	09/26/2014 1500	09/27/2014 0950
240-42438-2	WSP-2-092614	Water	09/26/2014 1505	09/27/2014 0950
240-42438-3	WSP-3-092614	Water	09/26/2014 1515	09/27/2014 0950
240-42438-4	WSP-4-092614	Water	09/26/2014 1515	09/27/2014 0950
240-42438-5	TB-092614	Water	09/26/2014 0000	09/27/2014 0950

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-42438-1	**WSP-1-092614**					
tert-Butyl alcohol		100000	J	250000	ug/L	8260C
Trichloroethene		110000		5000	ug/L	8260C
Total Recoverable						
Nickel		60		40	ug/L	6010C
Copper		6.7	J	25	ug/L	6010C
Lead		2.8	J B	10	ug/L	6010C
Zinc		120		50	ug/L	6010C
Chromium		0.80	J	10	ug/L	6010C
240-42438-2	**WSP-2-092614**					
Acetone		6.0	J	10	ug/L	8260C
Trichloroethene		0.25	J	1.0	ug/L	8260C
Total Recoverable						
Cadmium		0.15	J	5.0	ug/L	6010C
Nickel		55		40	ug/L	6010C
Copper		6.1	J	25	ug/L	6010C
Lead		3.8	J B	10	ug/L	6010C
Zinc		210		50	ug/L	6010C
Chromium		0.89	J	10	ug/L	6010C
240-42438-4	**WSP-4-092614**					
Total Recoverable						
Nickel		0.84	J	40	ug/L	6010C
Copper		3.3	J	25	ug/L	6010C
Lead		6.8	J B	10	ug/L	6010C
Zinc		4200		50	ug/L	6010C

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL CAN	SW846 8260C	
Purge and Trap	TAL CAN		SW846 5030C
Metals (ICP)	TAL CAN	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL CAN		SW846 3005A
Mercury (CVAA)	TAL CAN	SW846 7470A	
Preparation, Mercury	TAL CAN		SW846 7470A

Lab References:

TAL CAN = TestAmerica Canton

Method References:

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Method	Analyst	Analyst ID
SW846 8260C	Evans, Laura	LEE
SW846 6010C	Sutherland, Aaron	ADS
SW846 7470A	Martin, Aaron	AMM2

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **WSP-1-092614**

Lab Sample ID: 240-42438-1 Date Sampled: 09/26/2014 1500
Client Matrix: Water Date Received: 09/27/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4838.D
Dilution:	5000			Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 1331			Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 1331				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	1400	U	1400	5000
1,1,1-Trichloroethane	1100	U	1100	5000
1,1,2,2-Tetrachloroethane	1100	U	1100	5000
1,1,2-Trichlorotrifluoroethane	1900	U	1900	5000
1,1-Dichloroethane	1300	U	1300	5000
1,1-Dichloroethene	2300	U	2300	5000
1,1-Dichloropropene	1100	U	1100	5000
1,2,3-Trichlorobenzene	1900	U	1900	5000
1,2,3-Trichloropropane	1500	U	1500	5000
1,2,3-Trimethylbenzene	2400	U	2400	25000
1,2,4-Trichlorobenzene	1600	U	1600	5000
1,2,4-Trimethylbenzene	2100	U	2100	5000
1,2-Dibromo-3-Chloropropane	4100	U	4100	10000
1,2-Dichlorobenzene	850	U	850	5000
1,2-Dichloroethane	1000	U	1000	5000
1,2-Dichloropropane	1100	U	1100	5000
1,3-Dichlorobenzene	850	U	850	5000
1,3-Dichloropropane	900	U	900	5000
1,4-Dichlorobenzene	800	U	800	5000
2,2-Dichloropropane	1300	U	1300	5000
2-Butanone (MEK)	20000	U	20000	50000
2-Chloroethyl vinyl ether	5800	U	5800	50000
2-Chlorotoluene	1000	U	1000	5000
2-Hexanone	19000	U	19000	50000
4-Chlorotoluene	1100	U	1100	5000
4-Isopropyltoluene	2200	U	2200	5000
4-Methyl-2-pentanone (MIBK)	18000	U	18000	50000
Acetone	17000	U	17000	50000
Benzene	1200	U	1200	5000
Bromobenzene	600	U	600	5000
Bromoform	2800	U	2800	5000
Bromomethane	3200	U	3200	5000
Carbon disulfide	1400	U	1400	5000
Carbon tetrachloride	850	U	850	5000
Chlorobenzene	950	U	950	5000
Chlorodibromomethane	2200	U	2200	5000
Chloroethane	1700	U	1700	5000
Chloroform	1100	U	1100	5000
Chloromethane	2200	U	2200	5000
cis-1,2-Dichloroethene	1000	U	1000	5000
cis-1,3-Dichloropropene	2300	U	2300	5000
Dibromomethane	850	U	850	5000
Bromochloromethane	1300	U	1300	5000
Dichlorodifluoromethane	2500	U	2500	5000
Bromodichloromethane	750	U	750	5000
tert-Butyl alcohol	100000	J	43000	250000

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **WSP-1-092614**

Lab Sample ID: 240-42438-1 Date Sampled: 09/26/2014 1500
Client Matrix: Water Date Received: 09/27/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4838.D
Dilution:	5000			Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 1331			Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 1331				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	1200	U	1200	5000
Hexachlorobutadiene	1800	U	1800	5000
Diisopropyl ether	950	U	950	50000
Isopropylbenzene	1800	U	1800	5000
Methyl tert-butyl ether	800	U	800	5000
Methylene Chloride	1400	U	1400	5000
m-Xylene & p-Xylene	1100	U	1100	10000
Naphthalene	2300	U	2300	5000
n-Butylbenzene	1100	U	1100	5000
N-Propylbenzene	2000	U	2000	5000
o-Xylene	1100	U	1100	5000
sec-Butylbenzene	2400	U	2400	5000
Styrene	2300	U	2300	5000
Tert-amyl methyl ether	800	U	800	25000
Ethyl tert-butyl ether	1000	U	1000	25000
Tetrachloroethene	1000	U	1000	5000
Toluene	1100	U	1100	5000
trans-1,2-Dichloroethene	1300	U	1300	5000
trans-1,3-Dichloropropene	2800	U	2800	5000
Trichloroethene	110000		750	5000
Trichlorofluoromethane	2500	U	2500	5000
Vinyl acetate	2100	U	2100	10000
Vinyl chloride	1500	U	1500	5000
Xylenes, Total	2200	U	2200	10000
tert-Butylbenzene	2100	U	2100	5000
1,2-Dibromoethane	950	U	950	5000

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	85		74 - 120
Dibromofluoromethane (Surr)	82		75 - 121
4-Bromofluorobenzene (Surr)	83		66 - 120
1,2-Dichloroethane-d4 (Surr)	90		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **WSP-2-092614**

Lab Sample ID: 240-42438-2 Date Sampled: 09/26/2014 1505
Client Matrix: Water Date Received: 09/27/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4793.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1820			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1820				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	6.0	J	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **WSP-2-092614**

Lab Sample ID: 240-42438-2 Date Sampled: 09/26/2014 1505
Client Matrix: Water Date Received: 09/27/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4793.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1820			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1820				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.25	J	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	85		74 - 120
Dibromofluoromethane (Surr)	87		75 - 121
4-Bromofluorobenzene (Surr)	89		66 - 120
1,2-Dichloroethane-d4 (Surr)	90		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **WSP-3-092614**

Lab Sample ID: 240-42438-3 Date Sampled: 09/26/2014 1515
Client Matrix: Water Date Received: 09/27/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4794.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1842			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1842				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **WSP-3-092614**

Lab Sample ID: 240-42438-3 Date Sampled: 09/26/2014 1515
Client Matrix: Water Date Received: 09/27/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4794.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1842			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1842				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	86		74 - 120
Dibromofluoromethane (Surr)	89		75 - 121
4-Bromofluorobenzene (Surr)	89		66 - 120
1,2-Dichloroethane-d4 (Surr)	89		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **WSP-4-092614**

Lab Sample ID: 240-42438-4 Date Sampled: 09/26/2014 1515
Client Matrix: Water Date Received: 09/27/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4795.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1905			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1905				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **WSP-4-092614**

Lab Sample ID: 240-42438-4 Date Sampled: 09/26/2014 1515
Client Matrix: Water Date Received: 09/27/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4795.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1905			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1905				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	86		74 - 120
Dibromofluoromethane (Surr)	88		75 - 121
4-Bromofluorobenzene (Surr)	88		66 - 120
1,2-Dichloroethane-d4 (Surr)	85		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **TB-092614**

Lab Sample ID: 240-42438-5 Date Sampled: 09/26/2014 0000
Client Matrix: Water Date Received: 09/27/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4796.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1927			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1927				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **TB-092614**

Lab Sample ID: 240-42438-5 Date Sampled: 09/26/2014 0000
Client Matrix: Water Date Received: 09/27/2014 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXC4796.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1927			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1927				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	87		74 - 120
Dibromofluoromethane (Surr)	86		75 - 121
4-Bromofluorobenzene (Surr)	91		66 - 120
1,2-Dichloroethane-d4 (Surr)	85		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **WSP-1-092614**

Lab Sample ID: 240-42438-1 Date Sampled: 09/26/2014 1500
Client Matrix: Water Date Received: 09/27/2014 0950

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	240-149707	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-149343	Lab File ID:	I9100114B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 1358			Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 0931				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Cadmium	0.14	U	0.14	5.0
Nickel	60		0.76	40
Silver	0.92	U	0.92	10
Copper	6.7	J	1.9	25
Lead	2.8	J B	1.9	10
Zinc	120		9.6	50
Chromium	0.80	J	0.55	10

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	240-149790	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-149344	Lab File ID:	100114A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 2027			Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 1200				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.090	U	0.090	0.20

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **WSP-2-092614**

Lab Sample ID: 240-42438-2 Date Sampled: 09/26/2014 1505
Client Matrix: Water Date Received: 09/27/2014 0950

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	240-149707	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-149343	Lab File ID:	I9100114B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 1402			Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 0931				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Cadmium	0.15	J	0.14	5.0
Nickel	55		0.76	40
Silver	0.92	U	0.92	10
Copper	6.1	J	1.9	25
Lead	3.8	J B	1.9	10
Zinc	210		9.6	50
Chromium	0.89	J	0.55	10

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	240-149790	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-149344	Lab File ID:	100114A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 2033			Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 1200				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.090	U	0.090	0.20

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Client Sample ID: **WSP-4-092614**

Lab Sample ID: 240-42438-4 Date Sampled: 09/26/2014 1515
Client Matrix: Water Date Received: 09/27/2014 0950

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	240-149707	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-149343	Lab File ID:	I9100114B.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 1406			Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 0931				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Cadmium	0.14	U	0.14	5.0
Nickel	0.84	J	0.76	40
Silver	0.92	U	0.92	10
Copper	3.3	J	1.9	25
Lead	6.8	J B	1.9	10
Zinc	4200		9.6	50
Chromium	0.55	U	0.55	10

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	240-149790	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-149344	Lab File ID:	100114A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 2035			Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 1200				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.090	U	0.090	0.20

Client: Tetra Tech, Inc.

Job Number: 240-42438-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-42438-1	WSP-1-092614	82	90	85	83
240-42438-2	WSP-2-092614	87	90	85	89
240-42438-3	WSP-3-092614	89	89	86	89
240-42438-4	WSP-4-092614	88	85	86	88
240-42438-5	TB-092614	86	85	87	91
MB 240-149718/18		82	87	84	86
MB 240-149984/32		81	88	84	85
LCS 240-149718/16		85	85	89	95
LCS 240-149984/4		86	86	89	87
240-42438-1 MS	WSP-1-092614 MS	89	85	91	92
240-42438-1 MSD	WSP-1-092614 MSD	86	82	87	90

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Method Blank - Batch: 240-149718

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-149718/18	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4784.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1457	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1457				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Method Blank - Batch: 240-149718

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-149718/18	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4784.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1457	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1457				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
tert-Butyl alcohol	8.7	U	8.7	50
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.469	J	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	84	74 - 120
Dibromofluoromethane (Surr)	82	75 - 121
4-Bromofluorobenzene (Surr)	86	66 - 120
1,2-Dichloroethane-d4 (Surr)	87	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Lab Control Sample - Batch: 240-149718

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-149718/16	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4782.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1412	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1412				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	10.1	101	72 - 120	
1,1,1-Trichloroethane	10.0	9.31	93	74 - 120	
1,1,2,2-Tetrachloroethane	10.0	10.6	106	68 - 120	
1,1,2-Trichlorotrifluoroethane	10.0	9.55	95	74 - 151	
1,1-Dichloroethane	10.0	10.3	103	80 - 120	
1,1-Dichloroethene	10.0	9.59	96	78 - 131	
1,1-Dichloropropene	10.0	11.1	111	80 - 120	
1,2,3-Trichlorobenzene	10.0	9.05	91	54 - 126	
1,2,3-Trichloropropane	10.0	11.1	111	73 - 129	
1,2,4-Trichlorobenzene	10.0	8.96	90	48 - 135	
1,2,4-Trimethylbenzene	10.0	9.79	98	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	9.67	97	42 - 136	
1,2-Dichlorobenzene	10.0	9.75	97	80 - 120	
1,2-Dichloroethane	10.0	10.4	104	71 - 127	
1,2-Dichloropropane	10.0	9.59	96	80 - 120	
1,3-Dichlorobenzene	10.0	9.45	94	80 - 120	
1,3-Dichloropropane	10.0	10.7	107	79 - 120	
1,4-Dichlorobenzene	10.0	9.46	95	80 - 120	
2,2-Dichloropropane	10.0	8.41	84	50 - 129	
2-Butanone (MEK)	20.0	20.8	104	60 - 126	
2-Chloroethyl vinyl ether	12.0	12.8	107	52 - 131	
2-Chlorotoluene	10.0	9.84	98	76 - 120	
2-Hexanone	20.0	21.9	110	55 - 133	
4-Chlorotoluene	10.0	9.69	97	77 - 120	
4-Isopropyltoluene	10.0	9.60	96	74 - 120	
4-Methyl-2-pentanone (MIBK)	20.0	22.2	111	63 - 128	
Acetone	20.0	18.9	94	43 - 136	
Benzene	10.0	9.91	99	80 - 120	
Bromobenzene	10.0	9.56	96	76 - 120	
Bromoform	10.0	10.5	105	40 - 131	
Bromomethane	10.0	8.78	88	11 - 185	
Carbon disulfide	10.0	9.94	99	62 - 142	
Carbon tetrachloride	10.0	9.33	93	66 - 128	
Chlorobenzene	10.0	10.3	103	80 - 120	
Chlorodibromomethane	10.0	10.1	101	64 - 120	
Chloroethane	10.0	9.07	91	25 - 153	
Chloroform	10.0	10.0	100	79 - 120	
Chloromethane	10.0	8.69	87	44 - 126	
cis-1,2-Dichloroethene	10.0	9.95	100	80 - 120	
cis-1,3-Dichloropropene	10.0	9.99	100	61 - 120	
Dibromomethane	10.0	10.1	101	80 - 120	
Bromochloromethane	10.0	10.2	102	77 - 120	
Dichlorodifluoromethane	10.0	7.32	73	19 - 129	
Bromodichloromethane	10.0	9.59	96	72 - 121	
tert-Butyl alcohol	100	70.6	71	70 - 130	
Ethylbenzene	10.0	10.5	105	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Lab Control Sample - Batch: 240-149718

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-149718/16	Analysis Batch:	240-149718	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4782.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1412	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1412				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorobutadiene	10.0	8.25	83	36 - 134	
Isopropylbenzene	10.0	10.8	108	75 - 120	
Methyl tert-butyl ether	10.0	10.4	104	52 - 144	
Methylene Chloride	10.0	10.5	105	66 - 131	
m-Xylene & p-Xylene	10.0	10.6	106	80 - 120	
Naphthalene	10.0	9.29	93	32 - 141	
n-Butylbenzene	10.0	9.35	94	66 - 125	
N-Propylbenzene	10.0	9.99	100	74 - 121	
o-Xylene	10.0	10.7	107	80 - 120	
sec-Butylbenzene	10.0	9.71	97	70 - 120	
Styrene	10.0	11.2	112	79 - 120	
Tetrachloroethene	10.0	10.2	102	79 - 120	
Toluene	10.0	10.4	104	80 - 120	
trans-1,2-Dichloroethene	10.0	10.1	101	80 - 120	
trans-1,3-Dichloropropene	10.0	10.6	106	58 - 120	
Trichloroethene	10.0	10.1	101	76 - 120	
Trichlorofluoromethane	10.0	8.82	88	49 - 157	
Vinyl acetate	8.00	7.60	95	46 - 161	
Vinyl chloride	10.0	8.89	89	53 - 127	
Xylenes, Total	20.0	21.3	107	80 - 120	
tert-Butylbenzene	10.0	8.31	83	71 - 120	
1,2-Dibromoethane	10.0	11.5	115	79 - 120	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	89	74 - 120
Dibromofluoromethane (Surr)	85	75 - 121
4-Bromofluorobenzene (Surr)	95	66 - 120
1,2-Dichloroethane-d4 (Surr)	85	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Method Blank - Batch: 240-149984

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-149984/32	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4836.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 1246	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 1246				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Method Blank - Batch: 240-149984

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-149984/32	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4836.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 1246	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 1246				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
tert-Butyl alcohol	8.7	U	8.7	50
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	84	74 - 120
Dibromofluoromethane (Surr)	81	75 - 121
4-Bromofluorobenzene (Surr)	85	66 - 120
1,2-Dichloroethane-d4 (Surr)	88	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Lab Control Sample - Batch: 240-149984

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-149984/4	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4831.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 1053	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 1053				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	10.3	103	72 - 120	
1,1,1-Trichloroethane	10.0	9.10	91	74 - 120	
1,1,2,2-Tetrachloroethane	10.0	10.6	106	68 - 120	
1,1,2-Trichlorotrifluoroethane	10.0	9.13	91	74 - 151	
1,1-Dichloroethane	10.0	9.76	98	80 - 120	
1,1-Dichloroethene	10.0	9.56	96	78 - 131	
1,1-Dichloropropene	10.0	11.2	112	80 - 120	
1,2,3-Trichlorobenzene	10.0	10.0	100	54 - 126	
1,2,3-Trichloropropane	10.0	11.0	110	73 - 129	
1,2,4-Trichlorobenzene	10.0	9.77	98	48 - 135	
1,2,4-Trimethylbenzene	10.0	10.3	103	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	9.93	99	42 - 136	
1,2-Dichlorobenzene	10.0	10.0	100	80 - 120	
1,2-Dichloroethane	10.0	10.8	108	71 - 127	
1,2-Dichloropropane	10.0	9.68	97	80 - 120	
1,3-Dichlorobenzene	10.0	9.74	97	80 - 120	
1,3-Dichloropropane	10.0	10.7	107	79 - 120	
1,4-Dichlorobenzene	10.0	9.69	97	80 - 120	
2,2-Dichloropropane	10.0	8.12	81	50 - 129	
2-Butanone (MEK)	20.0	19.6	98	60 - 126	
2-Chloroethyl vinyl ether	12.0	12.8	107	52 - 131	
2-Chlorotoluene	10.0	10.2	102	76 - 120	
2-Hexanone	20.0	18.6	93	55 - 133	
4-Chlorotoluene	10.0	9.96	100	77 - 120	
4-Isopropyltoluene	10.0	10.1	101	74 - 120	
4-Methyl-2-pentanone (MIBK)	20.0	20.1	101	63 - 128	
Acetone	20.0	20.0	100	43 - 136	
Benzene	10.0	10.0	100	80 - 120	
Bromobenzene	10.0	10.2	102	76 - 120	
Bromoform	10.0	10.2	102	40 - 131	
Bromomethane	10.0	7.20	72	11 - 185	
Carbon disulfide	10.0	9.76	98	62 - 142	
Carbon tetrachloride	10.0	9.40	94	66 - 128	
Chlorobenzene	10.0	10.3	103	80 - 120	
Chlorodibromomethane	10.0	10.2	102	64 - 120	
Chloroethane	10.0	7.86	79	25 - 153	
Chloroform	10.0	9.87	99	79 - 120	
Chloromethane	10.0	7.26	73	44 - 126	
cis-1,2-Dichloroethene	10.0	9.79	98	80 - 120	
cis-1,3-Dichloropropene	10.0	10.0	100	61 - 120	
Dibromomethane	10.0	10.7	107	80 - 120	
Bromochloromethane	10.0	10.0	100	77 - 120	
Dichlorodifluoromethane	10.0	6.14	61	19 - 129	
Bromodichloromethane	10.0	10.1	101	72 - 121	
tert-Butyl alcohol	100	96.6	97	70 - 130	
Ethylbenzene	10.0	10.4	104	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Lab Control Sample - Batch: 240-149984

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-149984/4	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4831.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 1053	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 1053				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorobutadiene	10.0	8.95	90	36 - 134	
Isopropylbenzene	10.0	10.6	106	75 - 120	
Methyl tert-butyl ether	10.0	9.85	99	52 - 144	
Methylene Chloride	10.0	10.2	102	66 - 131	
m-Xylene & p-Xylene	10.0	10.5	105	80 - 120	
Naphthalene	10.0	9.80	98	32 - 141	
n-Butylbenzene	10.0	9.77	98	66 - 125	
N-Propylbenzene	10.0	10.4	104	74 - 121	
o-Xylene	10.0	10.6	106	80 - 120	
sec-Butylbenzene	10.0	10.2	102	70 - 120	
Styrene	10.0	11.0	110	79 - 120	
Tetrachloroethene	10.0	10.4	104	79 - 120	
Toluene	10.0	10.5	105	80 - 120	
trans-1,2-Dichloroethene	10.0	9.77	98	80 - 120	
trans-1,3-Dichloropropene	10.0	10.4	104	58 - 120	
Trichloroethene	10.0	10.5	105	76 - 120	
Trichlorofluoromethane	10.0	7.45	75	49 - 157	
Vinyl acetate	8.00	7.68	96	46 - 161	
Vinyl chloride	10.0	7.57	76	53 - 127	
Xylenes, Total	20.0	21.1	106	80 - 120	
tert-Butylbenzene	10.0	8.97	90	71 - 120	
1,2-Dibromoethane	10.0	11.2	112	79 - 120	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	89	74 - 120
Dibromofluoromethane (Surr)	86	75 - 121
4-Bromofluorobenzene (Surr)	87	66 - 120
1,2-Dichloroethane-d4 (Surr)	86	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149984

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42438-1	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4857.D
Dilution:	5000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 2039			Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 2039				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-42438-1	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4858.D
Dilution:	5000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 2101			Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 2101				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	103	97	64 - 120	6	30		
1,1,1-Trichloroethane	97	92	68 - 121	5	30		
1,1,2,2-Tetrachloroethane	101	98	63 - 122	3	30		
1,1,2-Trichlorotrifluoroethane	95	89	70 - 152	7	30		
1,1-Dichloroethane	106	102	79 - 120	4	30		
1,1-Dichloroethene	103	97	74 - 135	6	30		
1,1-Dichloropropene	110	100	80 - 120	9	30		
1,2,3-Trichlorobenzene	90	99	45 - 129	9	30		
1,2,3-Trichloropropane	105	100	67 - 132	5	30		
1,2,4-Trichlorobenzene	88	92	38 - 138	4	30		
1,2,4-Trimethylbenzene	97	93	67 - 124	4	30		
1,2-Dibromo-3-Chloropropane	89	92	32 - 139	4	30		
1,2-Dichlorobenzene	98	93	75 - 120	5	30		
1,2-Dichloroethane	104	99	68 - 129	5	30		
1,2-Dichloropropane	100	95	78 - 120	5	30		
1,3-Dichlorobenzene	92	87	73 - 120	6	30		
1,3-Dichloropropane	106	103	74 - 120	2	30		
1,4-Dichlorobenzene	93	90	75 - 120	4	30		
2,2-Dichloropropane	81	78	38 - 127	3	30		
2-Butanone (MEK)	93	96	54 - 129	3	30		
2-Chloroethyl vinyl ether	91	98	10 - 150	7	30		
2-Chlorotoluene	99	93	69 - 120	6	30		
2-Hexanone	79	79	47 - 139	0	30		
4-Chlorotoluene	97	90	71 - 120	7	30		
4-Isopropyltoluene	94	89	64 - 122	5	30		
4-Methyl-2-pentanone (MIBK)	99	98	56 - 131	1	30		
Acetone	75	84	33 - 145	12	30		
Benzene	101	96	72 - 121	5	30		
Bromobenzene	97	93	71 - 120	5	30		
Bromoform	103	99	32 - 128	4	30		
Bromomethane	80	72	10 - 186	11	30		
Carbon disulfide	107	100	57 - 147	7	30		
Carbon tetrachloride	97	91	59 - 129	6	30		

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149984

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42438-1	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4857.D
Dilution:	5000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 2039			Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 2039				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-42438-1	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4858.D
Dilution:	5000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 2101			Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 2101				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chlorobenzene	104	96	80 - 120	8	30		
Chlorodibromomethane	100	96	56 - 120	4	30		
Chloroethane	91	83	21 - 165	9	30		
Chloroform	107	100	76 - 120	7	30		
Chloromethane	80	76	33 - 132	6	30		
cis-1,2-Dichloroethene	106	100	70 - 120	6	30		
cis-1,3-Dichloropropene	92	93	51 - 120	1	30		
Dibromomethane	104	101	77 - 121	3	30		
Bromochloromethane	106	100	73 - 121	5	30		
Dichlorodifluoromethane	64	60	17 - 128	7	30		
Bromodichloromethane	97	96	67 - 120	1	30		
tert-Butyl alcohol	53	71	70 - 130	22	30	F1	
Ethylbenzene	105	97	75 - 120	8	30		
Hexachlorobutadiene	80	81	27 - 132	2	30		
Isopropylbenzene	107	97	68 - 120	10	30		
Methyl tert-butyl ether	103	101	46 - 144	2	30		
Methylene Chloride	113	105	63 - 128	7	30		
m-Xylene & p-Xylene	107	99	75 - 120	8	30		
Naphthalene	86	95	15 - 158	9	30		
n-Butylbenzene	89	85	56 - 127	5	30		
N-Propylbenzene	99	91	64 - 124	8	30		
o-Xylene	110	100	76 - 120	10	30		
sec-Butylbenzene	94	87	60 - 120	7	30		
Styrene	113	106	71 - 120	6	30		
Tetrachloroethene	105	98	70 - 120	7	30		
Toluene	106	99	78 - 120	7	30		
trans-1,2-Dichloroethene	106	101	80 - 120	5	30		
trans-1,3-Dichloropropene	96	95	46 - 120	1	30		
Trichloroethene	97	78	66 - 120	6	30		
Trichlorofluoromethane	86	81	46 - 157	6	30		
Vinyl acetate	67	76	43 - 157	12	30		
Vinyl chloride	85	79	49 - 130	6	30		
Xylenes, Total	108	99	76 - 120	9	30		

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149984

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42438-1	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4857.D
Dilution:	5000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 2039			Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 2039				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-42438-1	Analysis Batch:	240-149984	Instrument ID:	A3UX15
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXC4858.D
Dilution:	5000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/03/2014 2101			Final Weight/Volume:	5 mL
Prep Date:	10/03/2014 2101				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
tert-Butylbenzene	81	76	61 - 120	6	30		
1,2-Dibromoethane	111	106	74 - 120	4	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	91	87	74 - 120
Dibromofluoromethane (Surr)	89	86	75 - 121
4-Bromofluorobenzene (Surr)	92	90	66 - 120
1,2-Dichloroethane-d4 (Surr)	85	82	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149984

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42438-1	Units:	ug/L	MSD Lab Sample ID:	240-42438-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	5000			Dilution:	5000
Analysis Date:	10/03/2014 2039			Analysis Date:	10/03/2014 2101
Prep Date:	10/03/2014 2039			Prep Date:	10/03/2014 2101
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1,1,2-Tetrachloroethane	1400	U	50000	50000	51400	48700
1,1,1-Trichloroethane	1100	U	50000	50000	48400	46200
1,1,2,2-Tetrachloroethane	1100	U	50000	50000	50300	48900
1,1,2-Trichlorotrifluoroethane	1900	U	50000	50000	47600	44300
1,1-Dichloroethane	1300	U	50000	50000	53200	51000
1,1-Dichloroethene	2300	U	50000	50000	51500	48400
1,1-Dichloropropene	1100	U	50000	50000	54800	50000
1,2,3-Trichlorobenzene	1900	U	50000	50000	45200	49500
1,2,3-Trichloropropane	1500	U	50000	50000	52600	50200
1,2,4-Trichlorobenzene	1600	U	50000	50000	43900	45900
1,2,4-Trimethylbenzene	2100	U	50000	50000	48700	46600
1,2-Dibromo-3-Chloropropane	4100	U	50000	50000	44300	46100
1,2-Dichlorobenzene	850	U	50000	50000	48800	46300
1,2-Dichloroethane	1000	U	50000	50000	52100	49600
1,2-Dichloropropane	1100	U	50000	50000	49800	47300
1,3-Dichlorobenzene	850	U	50000	50000	46200	43600
1,3-Dichloropropane	900	U	50000	50000	52900	51600
1,4-Dichlorobenzene	800	U	50000	50000	46500	44800
2,2-Dichloropropane	1300	U	50000	50000	40400	39200
2-Butanone (MEK)	20000	U	100000	100000	92900	96000
2-Chloroethyl vinyl ether	5800	U	60000	60000	54700	58700
2-Chlorotoluene	1000	U	50000	50000	49700	46700
2-Hexanone	19000	U	100000	100000	79000	78900
4-Chlorotoluene	1100	U	50000	50000	48500	45100
4-Isopropyltoluene	2200	U	50000	50000	46800	44400
4-Methyl-2-pentanone (MIBK)	18000	U	100000	100000	99200	98300
Acetone	17000	U	100000	100000	75000	84500
Benzene	1200	U	50000	50000	50500	48100
Bromobenzene	600	U	50000	50000	48600	46300
Bromoform	2800	U	50000	50000	51400	49600
Bromomethane	3200	U	50000	50000	40000	35900
Carbon disulfide	1400	U	50000	50000	53600	49900
Carbon tetrachloride	850	U	50000	50000	48700	45700
Chlorobenzene	950	U	50000	50000	51900	47900
Chlorodibromomethane	2200	U	50000	50000	50000	48100
Chloroethane	1700	U	50000	50000	45500	41600
Chloroform	1100	U	50000	50000	53500	50100
Chloromethane	2200	U	50000	50000	40100	37800
cis-1,2-Dichloroethene	1000	U	50000	50000	53100	50100
cis-1,3-Dichloropropene	2300	U	50000	50000	46200	46500
Dibromomethane	850	U	50000	50000	52200	50400
Bromochloromethane	1300	U	50000	50000	52800	50100
Dichlorodifluoromethane	2500	U	50000	50000	32100	30000

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149984

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42438-1	Units:	ug/L	MSD Lab Sample ID:	240-42438-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	5000			Dilution:	5000
Analysis Date:	10/03/2014 2039			Analysis Date:	10/03/2014 2101
Prep Date:	10/03/2014 2039			Prep Date:	10/03/2014 2101
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
Bromodichloromethane	750	U	50000	50000	48300		47900
tert-Butyl alcohol	100000	J	500000	500000	365000	F1	458000
Ethylbenzene	1200	U	50000	50000	52500		48600
Hexachlorobutadiene	1800	U	50000	50000	39900		40600
Isopropylbenzene	1800	U	50000	50000	53700		48500
Methyl tert-butyl ether	800	U	50000	50000	51500		50400
Methylene Chloride	1400	U	50000	50000	56700		52700
m-Xylene & p-Xylene	1100	U	50000	50000	53300		49400
Naphthalene	2300	U	50000	50000	43000		47300
n-Butylbenzene	1100	U	50000	50000	44300		42400
N-Propylbenzene	2000	U	50000	50000	49700		45700
o-Xylene	1100	U	50000	50000	54800		49800
sec-Butylbenzene	2400	U	50000	50000	46800		43700
Styrene	2300	U	50000	50000	56700		53200
Tetrachloroethene	1000	U	50000	50000	52700		48900
Toluene	1100	U	50000	50000	53000		49500
trans-1,2-Dichloroethene	1300	U	50000	50000	53100		50400
trans-1,3-Dichloropropene	2800	U	50000	50000	48100		47600
Trichloroethene	110000		50000	50000	157000		147000
Trichlorofluoromethane	2500	U	50000	50000	42900		40500
Vinyl acetate	2100	U	40000	40000	26700		30200
Vinyl chloride	1500	U	50000	50000	42300		39700
Xylenes, Total	2200	U	100000	100000	108000		99200
tert-Butylbenzene	2100	U	50000	50000	40500		38200
1,2-Dibromoethane	950	U	50000	50000	55400		53000

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Method Blank - Batch: 240-149343

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 240-149343/1-A	Analysis Batch:	240-149707	Instrument ID:	I9
Client Matrix:	Water	Prep Batch:	240-149343	Lab File ID:	I9100114B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 1350	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 0931				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cadmium	0.14	U	0.14	5.0
Nickel	0.76	U	0.76	40
Silver	0.92	U	0.92	10
Copper	1.9	U	1.9	25
Lead	2.74	J	1.9	10
Zinc	9.6	U	9.6	50
Chromium	0.55	U	0.55	10

Lab Control Sample - Batch: 240-149343

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 240-149343/2-A	Analysis Batch:	240-149707	Instrument ID:	I9
Client Matrix:	Water	Prep Batch:	240-149343	Lab File ID:	I9100114B.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 1354	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 0931				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cadmium	50.0	53.5	107	80 - 120	
Nickel	500	515	103	80 - 120	
Silver	50.0	53.8	108	80 - 120	
Copper	250	260	104	80 - 120	
Lead	500	503	101	80 - 120	
Zinc	500	517	103	80 - 120	
Chromium	200	204	102	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Method Blank - Batch: 240-149344

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 240-149344/1-A	Analysis Batch:	240-149790	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-149344	Lab File ID:	100114A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 2016	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 1200				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.090	U	0.090	0.20

Lab Control Sample - Batch: 240-149344

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 240-149344/2-A	Analysis Batch:	240-149790	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-149344	Lab File ID:	100114A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 2018	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 1200				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	4.69	94	81 - 123	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149344

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	240-42451-D-1-E MS	Analysis Batch:	240-149790	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-149344	Lab File ID:	100114A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 2022			Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 1200				
Leach Date:	N/A				

MSD Lab Sample ID:	240-42451-D-1-F MSD	Analysis Batch:	240-149790	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-149344	Lab File ID:	100114A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/01/2014 2025			Final Weight/Volume:	50 mL
Prep Date:	09/30/2014 1200				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	97	93	69 - 134	3	20		

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149344

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	240-42451-D-1-E MS	Units:	ug/L	MSD Lab Sample ID:	240-42451-D-1-F MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/01/2014 2022			Analysis Date:	10/01/2014 2025
Prep Date:	09/30/2014 1200			Prep Date:	09/30/2014 1200
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.090	U	1.00	1.00	0.966	0.934

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Tetra Tech, Inc. Job Number: 240-42438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-149718					
LCS 240-149718/16	Lab Control Sample	T	Water	8260C	
MB 240-149718/18	Method Blank	T	Water	8260C	
240-42438-2	WSP-2-092614	T	Water	8260C	
240-42438-3	WSP-3-092614	T	Water	8260C	
240-42438-4	WSP-4-092614	T	Water	8260C	
240-42438-5	TB-092614	T	Water	8260C	
Analysis Batch:240-149984					
LCS 240-149984/4	Lab Control Sample	T	Water	8260C	
MB 240-149984/32	Method Blank	T	Water	8260C	
240-42438-1	WSP-1-092614	T	Water	8260C	
240-42438-1MS	Matrix Spike	T	Water	8260C	
240-42438-1MSD	Matrix Spike Duplicate	T	Water	8260C	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-42438-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-149343					
LCS 240-149343/2-A	Lab Control Sample	R	Water	3005A	
MB 240-149343/1-A	Method Blank	R	Water	3005A	
240-42438-1	WSP-1-092614	R	Water	3005A	
240-42438-2	WSP-2-092614	R	Water	3005A	
240-42438-4	WSP-4-092614	R	Water	3005A	
Prep Batch: 240-149344					
LCS 240-149344/2-A	Lab Control Sample	T	Water	7470A	
MB 240-149344/1-A	Method Blank	T	Water	7470A	
240-42438-1	WSP-1-092614	T	Water	7470A	
240-42438-2	WSP-2-092614	T	Water	7470A	
240-42438-4	WSP-4-092614	T	Water	7470A	
240-42451-D-1-E MS	Matrix Spike	D	Water	7470A	
240-42451-D-1-F MSD	Matrix Spike Duplicate	D	Water	7470A	
Analysis Batch:240-149707					
LCS 240-149343/2-A	Lab Control Sample	R	Water	6010C	240-149343
MB 240-149343/1-A	Method Blank	R	Water	6010C	240-149343
240-42438-1	WSP-1-092614	R	Water	6010C	240-149343
240-42438-2	WSP-2-092614	R	Water	6010C	240-149343
240-42438-4	WSP-4-092614	R	Water	6010C	240-149343
Analysis Batch:240-149790					
LCS 240-149344/2-A	Lab Control Sample	T	Water	7470A	240-149344
MB 240-149344/1-A	Method Blank	T	Water	7470A	240-149344
240-42438-1	WSP-1-092614	T	Water	7470A	240-149344
240-42438-2	WSP-2-092614	T	Water	7470A	240-149344
240-42438-4	WSP-4-092614	T	Water	7470A	240-149344
240-42451-D-1-E MS	Matrix Spike	D	Water	7470A	240-149344
240-42451-D-1-F MSD	Matrix Spike Duplicate	D	Water	7470A	240-149344

Report Basis
D = Dissolved
R = Total Recoverable
T = Total

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Laboratory Chronicle

Lab ID: 240-42438-1 **Client ID:** WSP-1-092614

Sample Date/Time: 09/26/2014 15:00 Received Date/Time: 09/27/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42438-B-1		240-149984		10/03/2014 13:31	5000	TAL CAN	LEE
A:8260C	240-42438-B-1		240-149984		10/03/2014 13:31	5000	TAL CAN	LEE
P:3005A	240-42438-E-1-A		240-149707	240-149343	09/30/2014 09:31	1	TAL CAN	WAL
A:6010C	240-42438-E-1-A		240-149707	240-149343	10/01/2014 13:58	1	TAL CAN	ADS
P:7470A	240-42438-E-1-B		240-149790	240-149344	09/30/2014 12:00	1	TAL CAN	WAL
A:7470A	240-42438-E-1-B		240-149790	240-149344	10/01/2014 20:27	1	TAL CAN	AMM2

Lab ID: 240-42438-1 MS **Client ID:** WSP-1-092614

Sample Date/Time: 09/26/2014 15:00 Received Date/Time: 09/27/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42438-B-1 MS		240-149984		10/03/2014 20:39	5000	TAL CAN	LEE
A:8260C	240-42438-B-1 MS		240-149984		10/03/2014 20:39	5000	TAL CAN	LEE

Lab ID: 240-42438-1 MSD **Client ID:** WSP-1-092614

Sample Date/Time: 09/26/2014 15:00 Received Date/Time: 09/27/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42438-B-1 MSD		240-149984		10/03/2014 21:01	5000	TAL CAN	LEE
A:8260C	240-42438-B-1 MSD		240-149984		10/03/2014 21:01	5000	TAL CAN	LEE

Lab ID: 240-42438-2 **Client ID:** WSP-2-092614

Sample Date/Time: 09/26/2014 15:05 Received Date/Time: 09/27/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42438-B-2		240-149718		10/02/2014 18:20	1	TAL CAN	LEE
A:8260C	240-42438-B-2		240-149718		10/02/2014 18:20	1	TAL CAN	LEE
P:3005A	240-42438-D-2-A		240-149707	240-149343	09/30/2014 09:31	1	TAL CAN	WAL
A:6010C	240-42438-D-2-A		240-149707	240-149343	10/01/2014 14:02	1	TAL CAN	ADS
P:7470A	240-42438-D-2-B		240-149790	240-149344	09/30/2014 12:00	1	TAL CAN	WAL
A:7470A	240-42438-D-2-B		240-149790	240-149344	10/01/2014 20:33	1	TAL CAN	AMM2

Lab ID: 240-42438-3 **Client ID:** WSP-3-092614

Sample Date/Time: 09/26/2014 15:15 Received Date/Time: 09/27/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42438-B-3		240-149718		10/02/2014 18:42	1	TAL CAN	LEE
A:8260C	240-42438-B-3		240-149718		10/02/2014 18:42	1	TAL CAN	LEE

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Laboratory Chronicle

Lab ID: 240-42438-4 **Client ID:** WSP-4-092614

Sample Date/Time: 09/26/2014 15:15 Received Date/Time: 09/27/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42438-B-4		240-149718		10/02/2014 19:05	1	TAL CAN	LEE
A:8260C	240-42438-B-4		240-149718		10/02/2014 19:05	1	TAL CAN	LEE
P:3005A	240-42438-E-4-A		240-149707	240-149343	09/30/2014 09:31	1	TAL CAN	WAL
A:6010C	240-42438-E-4-A		240-149707	240-149343	10/01/2014 14:06	1	TAL CAN	ADS
P:7470A	240-42438-E-4-B		240-149790	240-149344	09/30/2014 12:00	1	TAL CAN	WAL
A:7470A	240-42438-E-4-B		240-149790	240-149344	10/01/2014 20:35	1	TAL CAN	AMM2

Lab ID: 240-42438-5 **Client ID:** TB-092614

Sample Date/Time: 09/26/2014 00:00 Received Date/Time: 09/27/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42438-B-5		240-149718		10/02/2014 19:27	1	TAL CAN	LEE
A:8260C	240-42438-B-5		240-149718		10/02/2014 19:27	1	TAL CAN	LEE

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 240-149718/18		240-149718		10/02/2014 14:57	1	TAL CAN	LEE
A:8260C	MB 240-149718/18		240-149718		10/02/2014 14:57	1	TAL CAN	LEE
P:5030C	MB 240-149984/32		240-149984		10/03/2014 12:46	1	TAL CAN	LEE
A:8260C	MB 240-149984/32		240-149984		10/03/2014 12:46	1	TAL CAN	LEE
P:3005A	MB 240-149343/1-A		240-149707	240-149343	09/30/2014 09:31	1	TAL CAN	WAL
A:6010C	MB 240-149343/1-A		240-149707	240-149343	10/01/2014 13:50	1	TAL CAN	ADS
P:7470A	MB 240-149344/1-A		240-149790	240-149344	09/30/2014 12:00	1	TAL CAN	WAL
A:7470A	MB 240-149344/1-A		240-149790	240-149344	10/01/2014 20:16	1	TAL CAN	AMM2

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 240-149718/16		240-149718		10/02/2014 14:12	1	TAL CAN	LEE
A:8260C	LCS 240-149718/16		240-149718		10/02/2014 14:12	1	TAL CAN	LEE
P:5030C	LCS 240-149984/4		240-149984		10/03/2014 10:53	1	TAL CAN	LEE
A:8260C	LCS 240-149984/4		240-149984		10/03/2014 10:53	1	TAL CAN	LEE
P:3005A	LCS 240-149343/2-A		240-149707	240-149343	09/30/2014 09:31	1	TAL CAN	WAL
A:6010C	LCS 240-149343/2-A		240-149707	240-149343	10/01/2014 13:54	1	TAL CAN	ADS
P:7470A	LCS 240-149344/2-A		240-149790	240-149344	09/30/2014 12:00	1	TAL CAN	WAL
A:7470A	LCS 240-149344/2-A		240-149790	240-149344	10/01/2014 20:18	1	TAL CAN	AMM2

Client: Tetra Tech, Inc. Job Number: 240-42438-1

Laboratory Chronicle

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 09/25/2014 12:45 Received Date/Time: 09/27/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	240-42451-D-1-E MS		240-149790	240-149344	09/30/2014 12:00	1	TAL CAN	WAL
A:7470A	240-42451-D-1-E MS		240-149790	240-149344	10/01/2014 20:22	1	TAL CAN	AMM2

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 09/25/2014 12:45 Received Date/Time: 09/27/2014 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	240-42451-D-1-F MSD		240-149790	240-149344	09/30/2014 12:00	1	TAL CAN	WAL
A:7470A	240-42451-D-1-F MSD		240-149790	240-149344	10/01/2014 20:25	1	TAL CAN	AMM2

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
K2S2O8_00014	07/27/16	09/30/14	DIWATER, Lot DIWATER	2.5 L	MTK2S208_00014	125 g	Potassium persulfate	0.05 g/g
.MTK2S208_00014	07/27/16	Macron, Lot 0000046094			(Purchased Reagent)		Potassium persulfate	1 g/g
MT6500ICV_00021	11/14/14	09/17/14	DIWATER, Lot DIWATER	1000 mL	MTTRICV3_00004	6 mL	Chromium	1500 ug/L
							Copper	1500 ug/L
							Nickel	1500 ug/L
							Zinc	1500 ug/L
					MTTRICV5_00010	1.5 mL	Cadmium	375 ug/L
							Lead	375 ug/L
					MTTRICVAG_00004	7.5 mL	Silver	750 ug/L
.MTTRICV3_00004	06/01/15	CPI, Lot 1060597			(Purchased Reagent)		Chromium	250 mg/L
							Copper	250 mg/L
							Nickel	250 mg/L
							Zinc	250 mg/L
.MTTRICV5_00010	06/01/15	CPI, Lot 1060598			(Purchased Reagent)		Cadmium	250 ug/mL
							Lead	250 ug/mL
.MTTRICVAG_00004	01/02/15	CPI, Lot 1048231			(Purchased Reagent)		Silver	100 mg/L
MTAGSPIKEW_00042	03/09/15	09/09/14	DIWATER, Lot DIWATER	1000 mL	MTAG_00005	2.5 mL	Silver	2500 ug/L
					MTTMHNO3_00036	50 mL	Nitric acid	50000000 ug/L
.MTAG_00005	12/27/15	HIGH PURITY STANDARDS, Lot 1401302			(Purchased Reagent)		Silver	1000 ug/mL
.MTTMHNO3_00036	07/31/16	Macron, Lot 0000076768			(Purchased Reagent)		Nitric acid	100 %
MTH2S04_00020	09/18/16	Macron, Lot 0000056441			(Purchased Reagent)		Sulfuric acid	100 %
MTHGCALW_00733	09/30/14	09/30/14	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00013	1 mL	Mercury	100 ug/L
					MTTMHNO3_00039	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00013	07/01/15	INORGANIC VENTURES, Lot G2-HG02115			(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00039	09/16/16	JT Baker, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00734	10/01/14	10/01/14	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00013	1 mL	Mercury	100 ug/L
					MTTMHNO3_00039	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00013	07/01/15	INORGANIC VENTURES, Lot G2-HG02115			(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00039	09/16/16	JT Baker, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
MTHgStd_00011	07/31/15	Teledyne Leeman, Lot 1368801			(Purchased Reagent)		Mercury	1 ug/mL
MTICP1_00033	01/27/15	08/28/14	DIWATER, Lot DI WATER	1000 mL	MTICPSPIKE1A_00007	50 mL	Al	100000 ug/L
							As	100000 ug/L
							B	50000 ug/L
							Ba	100000 ug/L
							Be	2500 ug/L
							Cadmium	2500 ug/L
							Chromium	10000 ug/L
							Co	25000 ug/L
							Copper	12500 ug/L
							Fe	50000 ug/L
							Lead	25000 ug/L
							Mn	25000 ug/L
							Nickel	25000 ug/L
							Se	100000 ug/L
							Tl	100000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							V	25000 ug/L
							Zinc	25000 ug/L
					MTICPSPIKEB_00007	50 mL	Mo	50000 ug/L
							Sb	25000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00004	50 mL	Li	50000 ug/L
							Si	50000 ug/L
							SiO2	107000 ug/L
							Sr	50000 ug/L
					MTTMHNO3_00037	50 mL	Nitric acid	50000000 ug/L
.MTICPSPIKE1A_00007	01/27/15	High Purity Standards, Lot 1402729			(Purchased Reagent)		Al	2000 ug/mL
							As	2000 ug/mL
							B	1000 ug/mL
							Ba	2000 ug/mL
							Be	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Copper	250 ug/mL
							Fe	1000 ug/mL
							Lead	500 ug/mL
							Mn	500 ug/mL
							Nickel	500 ug/mL
							Se	2000 ug/mL
							Tl	2000 ug/mL
							V	500 ug/mL
							Zinc	500 ug/mL
.MTICPSPIKEB_00007	01/27/15	High Purity Standards, Lot 1402315			(Purchased Reagent)		Mo	1000 ug/mL
							Sb	500 ug/mL
							Sn	2000 ug/mL
							Ti	1000 ug/mL
.MTICPSpikeOdd_00004	01/27/15	High Purity Standards, Lot 1402316			(Purchased Reagent)		Li	1000 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sr	1000 ug/mL
.MTTMHNO3_00037	08/18/16	Macron, Lot LO8022			(Purchased Reagent)		Nitric acid	100 %
MTICP2A_00040	01/24/15	07/24/14	DIWATER, Lot DIWATER	1000 mL	MTTMHNO3_00034	50 mL	Nitric acid	50000 mg/L
					MTTRCAL2_00009	250 mL	Ca	2500 mg/L
							K	2500 mg/L
							Mg	2500 mg/L
							Na	2500 mg/L
.MTTMHNO3_00034	07/01/16	Macron, Lot 0000067457			(Purchased Reagent)		Nitric acid	100 %
.MTTRCAL2_00009	07/17/15	HIGH PURITY STANDARDS, Lot 1331807			(Purchased Reagent)		Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MTICPCCV_00030	03/15/15	09/15/14	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00005	200 mL	Cadmium	500 ug/L
							Chromium	2000 ug/L
							Copper	2000 ug/L
							Lead	500 ug/L
							Nickel	2000 ug/L
							Zinc	2000 ug/L
					MTICPCCV2_00005	200 mL	Silver	1000 ug/L
.MTICPCCV1_00005	08/01/15	INORGANIC VENTURES, Lot H2-MEB523064			(Purchased Reagent)		Cadmium	5000 ug/L
							Chromium	20000 ug/L
							Copper	20000 ug/L
							Lead	5000 ug/L
							Nickel	20000 ug/L
							Zinc	20000 ug/L
.MTICPCCV2_00005	08/01/15	INORGANIC VENTURES, Lot H2-MEB523065			(Purchased Reagent)		Silver	10000 ug/L
MTICPICSABW_00005	01/01/15	07/17/14	DIWATER, Lot DIWATER	1000 mL	MTICPICSAB1_00002	100 mL	Al	500000 ug/L
							As	1000 ug/L
							B	500 ug/L
							Ba	500 ug/L
							Be	500 ug/L
							Ca	500000 ug/L
							Cadmium	1000 ug/L
							Chromium	500 ug/L
							Co	500 ug/L
							Copper	500 ug/L
							Fe	200000 ug/L
							K	10000 ug/L
							Lead	1000 ug/L
							Li	500 ug/L
							Mg	500000 ug/L
							Mn	500 ug/L
							Na	10000 ug/L
							Nickel	1000 ug/L
							Se	1000 ug/L
							Sr	1500 ug/L
							Tl	1000 ug/L
							V	500 ug/L
							Zinc	1000 ug/L
					MTICPICSAB2_00002	100 mL	Mo	1000 ug/L
							Sb	1000 ug/L
							Si	10000 ug/L
							Silver	1000 ug/L
							Sn	500 ug/L
							Ti	500 ug/L
.MTICPICSAB1_00002	01/01/15	INORGANIC VENTURES, Lot G2-MEB505142			(Purchased Reagent)		Al	5000000 ug/L
							As	10000 ug/L
							B	5000 ug/L
							Ba	5000 ug/L

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Be	5000 ug/L
							Ca	5000000 ug/L
							Cadmium	10000 ug/L
							Chromium	5000 ug/L
							Co	5000 ug/L
							Copper	5000 ug/L
							Fe	2000000 ug/L
							K	100000 ug/L
							Lead	10000 ug/L
							Li	5000 ug/L
							Mg	5000000 ug/L
							Mn	5000 ug/L
							Na	100000 ug/L
							Nickel	10000 ug/L
							Se	10000 ug/L
							Sr	15000 ug/L
							Tl	10000 ug/L
							V	5000 ug/L
							Zinc	10000 ug/L
.MTICPICSAB2_00002	01/01/15	INORGANIC VENTURES, Lot G2-MEB505143			(Purchased Reagent)		Mo	10000 ug/L
							Sb	10000 ug/L
							Si	100000 ug/L
							Silver	10000 ug/L
							Sn	5000 ug/L
							Ti	5000 ug/L
MTK2S208RGNT_00054	04/16/16	04/16/14	DIWATER, Lot DIWATER	1 L	MTK2S208_00011	100 g	Potassium persulfate	0.1 g/g
.MTK2S208_00011	10/10/17	Fisher, Lot 120909			(Purchased Reagent)		Potassium persulfate	1 g/g
MTKMN04W_00070	09/23/16	09/23/14	DIWATER, Lot DIWATER	2.5 L	MTKMN04_00018	125 g	Potassium Permanganate	0.05 g/g
.MTKMN04_00018	08/07/19	Fisher, Lot 121666			(Purchased Reagent)		Potassium Permanganate	1 g/g
MTTMHCL_00045	09/12/16	J.T. Baker/Avantor, Lot 0000083855			(Purchased Reagent)		Hydrogen Chloride	100 %
MTTMHNO3_00039	09/16/16	JT Baker, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
MTTMHNO3_00040	09/29/16	JT Baker, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
MTTRCRIC_00022	12/01/14	09/05/14	DIWATER, Lot DIWATER	500 mL	MTTRCRI6010C_00008	25 mL	Cadmium	5 ug/L
							Chromium	10 ug/L
							Copper	20 ug/L
							Lead	10 ug/L
							Nickel	40 ug/L
							Silver	10 ug/L
							Zinc	50 ug/L
.MTTRCRI6010C_00008	12/01/14	Inorganic Ventures, Lot G2-MEB500140			(Purchased Reagent)		Cadmium	100 ug/L
							Chromium	200 ug/L
							Copper	400 ug/L
							Lead	200 ug/L
							Nickel	800 ug/L
							Silver	200 ug/L
							Zinc	1000 ug/L

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MTTRICSAW_00024	03/23/15	09/23/14	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00012	100 mL	Al	500000 ug/L
							Ca	500000 ug/L
							Fe	200000 ug/L
							Mg	500000 ug/L
.MTTRICSA_00012	06/01/15	INORGANIC VENTURES, Lot G2-MEB491156			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
VM50IS_00044	03/18/15	09/18/14	MEOH, Lot 62345	100 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18	restek, Lot A093261			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_stk_00060	10/10/14	04/10/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00017	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00061	01/05/15	07/07/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00017	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00068	10/07/14	09/30/14	MEOH, Lot na	3 mL	VMACROLSTD_00017	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00017	10/31/14	09/30/14	MEOH, Lot +182820000062345JF	20 mL	VM568720_00002	0.25 mL	Acrolein	250 ug/mL
..VM568720_00002	10/31/14	restek, Lot A0104246			(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASA9W_00029	10/03/14	09/26/14	MEOH, Lot NA	2 mL	VMFASA9_00003	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMFASA9_00003	02/05/15	08/05/14	MEOH, Lot +182820000062345JF	100 mL	vm568722S_00002	2.5 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723S_00001	2.5 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..vm568722S_00002	06/30/15	restek, Lot A0100258			(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723S_00001	04/30/16	restek, Lot A0102749			(Purchased Reagent)		Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-amyl methyl ether	2000 ug/mL
VMFASGW_00057	10/04/14	09/30/14	MEOH, Lot NA	2 mL	VMFASG_00019	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00019	10/04/14	09/04/14	MEOH, Lot 0000062345	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00054	10/07/14	09/30/14	MEOH, Lot NA	2 mL	VMRFASP_00011	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00011	10/31/14	09/30/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00005	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00011	3 mL	2-Chloroethyl vinyl ether	60 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VM567646S_00007	1 mL	Vinyl acetate	40 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00011	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00007	10/31/14		Restek, Lot A0102474		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRA9W_00075	10/07/14	09/30/14	MEOH, Lot NA	1 mL	VMRA9_00010	1 mL	Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00010	10/29/14	07/29/14	MEOH, Lot 134079	50 mL	VM567648_00014	1.25 mL	Cyclohexanone	500 ug/mL
					vm567719_00020	2.5 mL	2-Methylnaphthalene	100 ug/mL
					vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
					VM568723_00001	1.25 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..VM567648_00014	02/29/16		Restek, Lot A093361		(Purchased Reagent)		Cyclohexanone	20000 ug/mL
..vm567719_00020	02/28/15		Restek, Lot A093359		(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
..vm568722_00002	06/30/15		restek, Lot A0100262		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							1-Chlorohexane	2000 ug/mL
							2-Chloro-1,3-butadiene	2000 ug/mL
							2-Nitropropane	4000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL
..VM568723_00001	12/31/15		restek, Lot A099930		(Purchased Reagent)		Acetonitrile	20000 ug/mL
							Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRGAS_00071	10/03/14	09/26/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRPRIMW_00084	10/03/14	09/26/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00084	10/03/14	09/26/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	Xylenes, Total	100 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	Xylenes, Total	100 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		Xylenes, Total	4000 ug/mL

Certification Summary

Client: Tetra Tech, Inc.
Project/Site: LM MRC Block E

TestAmerica Job ID: 240-42438-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

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 #
WSP-1-092614	240-42438-1	82	90	85	83
WSP-2-092614	240-42438-2	87	90	85	89
WSP-3-092614	240-42438-3	89	89	86	89
WSP-4-092614	240-42438-4	88	85	86	88
TB-092614	240-42438-5	86	85	87	91
	MB 240-149718/18	82	87	84	86
	MB 240-149984/32	81	88	84	85
	LCS 240-149718/16	85	85	89	95
	LCS 240-149984/4	86	86	89	87
WSP-1-092614 MS	240-42438-1 MS	89	85	91	92
WSP-1-092614 MSD	240-42438-1 MSD	86	82	87	90

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4782.D

Lab ID: LCS 240-149718/16 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	10.1	101	72-120	
1,1,1-Trichloroethane	10.0	9.31	93	74-120	
1,1,2,2-Tetrachloroethane	10.0	10.6	106	68-120	
1,1,2-Trichlorotrifluoroethane	10.0	9.55	95	74-151	
1,1-Dichloroethane	10.0	10.3	103	80-120	
1,1-Dichloroethene	10.0	9.59	96	78-131	
1,1-Dichloropropene	10.0	11.1	111	80-120	
1,2,3-Trichlorobenzene	10.0	9.05	91	54-126	
1,2,3-Trichloropropane	10.0	11.1	111	73-129	
1,2,4-Trichlorobenzene	10.0	8.96	90	48-135	
1,2,4-Trimethylbenzene	10.0	9.79	98	76-120	
1,2-Dibromo-3-Chloropropane	10.0	9.67	97	42-136	
1,2-Dichlorobenzene	10.0	9.75	97	80-120	
1,2-Dichloroethane	10.0	10.4	104	71-127	
1,2-Dichloropropane	10.0	9.59	96	80-120	
1,3-Dichlorobenzene	10.0	9.45	94	80-120	
1,3-Dichloropropane	10.0	10.7	107	79-120	
1,4-Dichlorobenzene	10.0	9.46	95	80-120	
2,2-Dichloropropane	10.0	8.41	84	50-129	
2-Butanone (MEK)	20.0	20.8	104	60-126	
2-Chloroethyl vinyl ether	12.0	12.8	107	52-131	
2-Chlorotoluene	10.0	9.84	98	76-120	
2-Hexanone	20.0	21.9	110	55-133	
4-Chlorotoluene	10.0	9.69	97	77-120	
4-Isopropyltoluene	10.0	9.60	96	74-120	
4-Methyl-2-pentanone (MIBK)	20.0	22.2	111	63-128	
Acetone	20.0	18.9	94	43-136	
Benzene	10.0	9.91	99	80-120	
Bromobenzene	10.0	9.56	96	76-120	
Bromoform	10.0	10.5	105	40-131	
Bromomethane	10.0	8.78	88	11-185	
Carbon disulfide	10.0	9.94	99	62-142	
Carbon tetrachloride	10.0	9.33	93	66-128	
Chlorobenzene	10.0	10.3	103	80-120	
Chlorodibromomethane	10.0	10.1	101	64-120	
Chloroethane	10.0	9.07	91	25-153	
Chloroform	10.0	10.0	100	79-120	
Chloromethane	10.0	8.69	87	44-126	
cis-1,2-Dichloroethene	10.0	9.95	100	80-120	
cis-1,3-Dichloropropene	10.0	9.99	100	61-120	
Dibromomethane	10.0	10.1	101	80-120	
Bromochloromethane	10.0	10.2	102	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4782.D

Lab ID: LCS 240-149718/16 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	7.32	73	19-129	
Bromodichloromethane	10.0	9.59	96	72-121	
tert-Butyl alcohol	100	70.6	71	70-130	
Ethylbenzene	10.0	10.5	105	80-120	
Hexachlorobutadiene	10.0	8.25	83	36-134	
Isopropylbenzene	10.0	10.8	108	75-120	
Methyl tert-butyl ether	10.0	10.4	104	52-144	
Methylene Chloride	10.0	10.5	105	66-131	
m-Xylene & p-Xylene	10.0	10.6	106	80-120	
Naphthalene	10.0	9.29	93	32-141	
n-Butylbenzene	10.0	9.35	94	66-125	
N-Propylbenzene	10.0	9.99	100	74-121	
o-Xylene	10.0	10.7	107	80-120	
sec-Butylbenzene	10.0	9.71	97	70-120	
Styrene	10.0	11.2	112	79-120	
Tetrachloroethene	10.0	10.2	102	79-120	
Toluene	10.0	10.4	104	80-120	
trans-1,2-Dichloroethene	10.0	10.1	101	80-120	
trans-1,3-Dichloropropene	10.0	10.6	106	58-120	
Trichloroethene	10.0	10.1	101	76-120	
Trichlorofluoromethane	10.0	8.82	88	49-157	
Vinyl acetate	8.00	7.60	95	46-161	
Vinyl chloride	10.0	8.89	89	53-127	
Xylenes, Total	20.0	21.3	107	80-120	
tert-Butylbenzene	10.0	8.31	83	71-120	
1,2-Dibromoethane	10.0	11.5	115	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4831.D

Lab ID: LCS 240-149984/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	10.3	103	72-120	
1,1,1-Trichloroethane	10.0	9.10	91	74-120	
1,1,2,2-Tetrachloroethane	10.0	10.6	106	68-120	
1,1,2-Trichlorotrifluoroethane	10.0	9.13	91	74-151	
1,1-Dichloroethane	10.0	9.76	98	80-120	
1,1-Dichloroethene	10.0	9.56	96	78-131	
1,1-Dichloropropene	10.0	11.2	112	80-120	
1,2,3-Trichlorobenzene	10.0	10.0	100	54-126	
1,2,3-Trichloropropane	10.0	11.0	110	73-129	
1,2,4-Trichlorobenzene	10.0	9.77	98	48-135	
1,2,4-Trimethylbenzene	10.0	10.3	103	76-120	
1,2-Dibromo-3-Chloropropane	10.0	9.93	99	42-136	
1,2-Dichlorobenzene	10.0	10.0	100	80-120	
1,2-Dichloroethane	10.0	10.8	108	71-127	
1,2-Dichloropropane	10.0	9.68	97	80-120	
1,3-Dichlorobenzene	10.0	9.74	97	80-120	
1,3-Dichloropropane	10.0	10.7	107	79-120	
1,4-Dichlorobenzene	10.0	9.69	97	80-120	
2,2-Dichloropropane	10.0	8.12	81	50-129	
2-Butanone (MEK)	20.0	19.6	98	60-126	
2-Chloroethyl vinyl ether	12.0	12.8	107	52-131	
2-Chlorotoluene	10.0	10.2	102	76-120	
2-Hexanone	20.0	18.6	93	55-133	
4-Chlorotoluene	10.0	9.96	100	77-120	
4-Isopropyltoluene	10.0	10.1	101	74-120	
4-Methyl-2-pentanone (MIBK)	20.0	20.1	101	63-128	
Acetone	20.0	20.0	100	43-136	
Benzene	10.0	10.0	100	80-120	
Bromobenzene	10.0	10.2	102	76-120	
Bromoform	10.0	10.2	102	40-131	
Bromomethane	10.0	7.20	72	11-185	
Carbon disulfide	10.0	9.76	98	62-142	
Carbon tetrachloride	10.0	9.40	94	66-128	
Chlorobenzene	10.0	10.3	103	80-120	
Chlorodibromomethane	10.0	10.2	102	64-120	
Chloroethane	10.0	7.86	79	25-153	
Chloroform	10.0	9.87	99	79-120	
Chloromethane	10.0	7.26	73	44-126	
cis-1,2-Dichloroethene	10.0	9.79	98	80-120	
cis-1,3-Dichloropropene	10.0	10.0	100	61-120	
Dibromomethane	10.0	10.7	107	80-120	
Bromochloromethane	10.0	10.0	100	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4831.D

Lab ID: LCS 240-149984/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	6.14	61	19-129	
Bromodichloromethane	10.0	10.1	101	72-121	
tert-Butyl alcohol	100	96.6	97	70-130	
Ethylbenzene	10.0	10.4	104	80-120	
Hexachlorobutadiene	10.0	8.95	90	36-134	
Isopropylbenzene	10.0	10.6	106	75-120	
Methyl tert-butyl ether	10.0	9.85	99	52-144	
Methylene Chloride	10.0	10.2	102	66-131	
m-Xylene & p-Xylene	10.0	10.5	105	80-120	
Naphthalene	10.0	9.80	98	32-141	
n-Butylbenzene	10.0	9.77	98	66-125	
N-Propylbenzene	10.0	10.4	104	74-121	
o-Xylene	10.0	10.6	106	80-120	
sec-Butylbenzene	10.0	10.2	102	70-120	
Styrene	10.0	11.0	110	79-120	
Tetrachloroethene	10.0	10.4	104	79-120	
Toluene	10.0	10.5	105	80-120	
trans-1,2-Dichloroethene	10.0	9.77	98	80-120	
trans-1,3-Dichloropropene	10.0	10.4	104	58-120	
Trichloroethene	10.0	10.5	105	76-120	
Trichlorofluoromethane	10.0	7.45	75	49-157	
Vinyl acetate	8.00	7.68	96	46-161	
Vinyl chloride	10.0	7.57	76	53-127	
Xylenes, Total	20.0	21.1	106	80-120	
tert-Butylbenzene	10.0	8.97	90	71-120	
1,2-Dibromoethane	10.0	11.2	112	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4857.D

Lab ID: 240-42438-1 MS Client ID: WSP-1-092614 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50000	1400 U	51400	103	64-120	
1,1,1-Trichloroethane	50000	1100 U	48400	97	68-121	
1,1,2,2-Tetrachloroethane	50000	1100 U	50300	101	63-122	
1,1,2-Trichlorotrifluoroethane	50000	1900 U	47600	95	70-152	
1,1-Dichloroethane	50000	1300 U	53200	106	79-120	
1,1-Dichloroethene	50000	2300 U	51500	103	74-135	
1,1-Dichloropropene	50000	1100 U	54800	110	80-120	
1,2,3-Trichlorobenzene	50000	1900 U	45200	90	45-129	
1,2,3-Trichloropropane	50000	1500 U	52600	105	67-132	
1,2,4-Trichlorobenzene	50000	1600 U	43900	88	38-138	
1,2,4-Trimethylbenzene	50000	2100 U	48700	97	67-124	
1,2-Dibromo-3-Chloropropane	50000	4100 U	44300	89	32-139	
1,2-Dichlorobenzene	50000	850 U	48800	98	75-120	
1,2-Dichloroethane	50000	1000 U	52100	104	68-129	
1,2-Dichloropropane	50000	1100 U	49800	100	78-120	
1,3-Dichlorobenzene	50000	850 U	46200	92	73-120	
1,3-Dichloropropane	50000	900 U	52900	106	74-120	
1,4-Dichlorobenzene	50000	800 U	46500	93	75-120	
2,2-Dichloropropane	50000	1300 U	40400	81	38-127	
2-Butanone (MEK)	100000	20000 U	92900	93	54-129	
2-Chloroethyl vinyl ether	60000	5800 U	54700	91	10-150	
2-Chlorotoluene	50000	1000 U	49700	99	69-120	
2-Hexanone	100000	19000 U	79000	79	47-139	
4-Chlorotoluene	50000	1100 U	48500	97	71-120	
4-Isopropyltoluene	50000	2200 U	46800	94	64-122	
4-Methyl-2-pentanone (MIBK)	100000	18000 U	99200	99	56-131	
Acetone	100000	17000 U	75000	75	33-145	
Benzene	50000	1200 U	50500	101	72-121	
Bromobenzene	50000	600 U	48600	97	71-120	
Bromoform	50000	2800 U	51400	103	32-128	
Bromomethane	50000	3200 U	40000	80	10-186	
Carbon disulfide	50000	1400 U	53600	107	57-147	
Carbon tetrachloride	50000	850 U	48700	97	59-129	
Chlorobenzene	50000	950 U	51900	104	80-120	
Chlorodibromomethane	50000	2200 U	50000	100	56-120	
Chloroethane	50000	1700 U	45500	91	21-165	
Chloroform	50000	1100 U	53500	107	76-120	
Chloromethane	50000	2200 U	40100	80	33-132	
cis-1,2-Dichloroethene	50000	1000 U	53100	106	70-120	
cis-1,3-Dichloropropene	50000	2300 U	46200	92	51-120	
Dibromomethane	50000	850 U	52200	104	77-121	
Bromochloromethane	50000	1300 U	52800	106	73-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4857.D

Lab ID: 240-42438-1 MS Client ID: WSP-1-092614 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	50000	2500 U	32100	64	17-128	
Bromodichloromethane	50000	750 U	48300	97	67-120	
tert-Butyl alcohol	500000	100000 J	365000	53	70-130	F1
Ethylbenzene	50000	1200 U	52500	105	75-120	
Hexachlorobutadiene	50000	1800 U	39900	80	27-132	
Isopropylbenzene	50000	1800 U	53700	107	68-120	
Methyl tert-butyl ether	50000	800 U	51500	103	46-144	
Methylene Chloride	50000	1400 U	56700	113	63-128	
m-Xylene & p-Xylene	50000	1100 U	53300	107	75-120	
Naphthalene	50000	2300 U	43000	86	15-158	
n-Butylbenzene	50000	1100 U	44300	89	56-127	
N-Propylbenzene	50000	2000 U	49700	99	64-124	
o-Xylene	50000	1100 U	54800	110	76-120	
sec-Butylbenzene	50000	2400 U	46800	94	60-120	
Styrene	50000	2300 U	56700	113	71-120	
Tetrachloroethene	50000	1000 U	52700	105	70-120	
Toluene	50000	1100 U	53000	106	78-120	
trans-1,2-Dichloroethene	50000	1300 U	53100	106	80-120	
trans-1,3-Dichloropropene	50000	2800 U	48100	96	46-120	
Trichloroethene	50000	110000	157000	97	66-120	
Trichlorofluoromethane	50000	2500 U	42900	86	46-157	
Vinyl acetate	40000	2100 U	26700	67	43-157	
Vinyl chloride	50000	1500 U	42300	85	49-130	
Xylenes, Total	100000	2200 U	108000	108	76-120	
tert-Butylbenzene	50000	2100 U	40500	81	61-120	
1,2-Dibromoethane	50000	950 U	55400	111	74-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4858.D

Lab ID: 240-42438-1 MSD Client ID: WSP-1-092614 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	50000	48700	97	6	30	64-120	
1,1,1-Trichloroethane	50000	46200	92	5	30	68-121	
1,1,2,2-Tetrachloroethane	50000	48900	98	3	30	63-122	
1,1,2-Trichlorotrifluoroethane	50000	44300	89	7	30	70-152	
1,1-Dichloroethane	50000	51000	102	4	30	79-120	
1,1-Dichloroethene	50000	48400	97	6	30	74-135	
1,1-Dichloropropene	50000	50000	100	9	30	80-120	
1,2,3-Trichlorobenzene	50000	49500	99	9	30	45-129	
1,2,3-Trichloropropane	50000	50200	100	5	30	67-132	
1,2,4-Trichlorobenzene	50000	45900	92	4	30	38-138	
1,2,4-Trimethylbenzene	50000	46600	93	4	30	67-124	
1,2-Dibromo-3-Chloropropane	50000	46100	92	4	30	32-139	
1,2-Dichlorobenzene	50000	46300	93	5	30	75-120	
1,2-Dichloroethane	50000	49600	99	5	30	68-129	
1,2-Dichloropropane	50000	47300	95	5	30	78-120	
1,3-Dichlorobenzene	50000	43600	87	6	30	73-120	
1,3-Dichloropropane	50000	51600	103	2	30	74-120	
1,4-Dichlorobenzene	50000	44800	90	4	30	75-120	
2,2-Dichloropropane	50000	39200	78	3	30	38-127	
2-Butanone (MEK)	100000	96000	96	3	30	54-129	
2-Chloroethyl vinyl ether	60000	58700	98	7	30	10-150	
2-Chlorotoluene	50000	46700	93	6	30	69-120	
2-Hexanone	100000	78900	79	0	30	47-139	
4-Chlorotoluene	50000	45100	90	7	30	71-120	
4-Isopropyltoluene	50000	44400	89	5	30	64-122	
4-Methyl-2-pentanone (MIBK)	100000	98300	98	1	30	56-131	
Acetone	100000	84500	84	12	30	33-145	
Benzene	50000	48100	96	5	30	72-121	
Bromobenzene	50000	46300	93	5	30	71-120	
Bromoform	50000	49600	99	4	30	32-128	
Bromomethane	50000	35900	72	11	30	10-186	
Carbon disulfide	50000	49900	100	7	30	57-147	
Carbon tetrachloride	50000	45700	91	6	30	59-129	
Chlorobenzene	50000	47900	96	8	30	80-120	
Chlorodibromomethane	50000	48100	96	4	30	56-120	
Chloroethane	50000	41600	83	9	30	21-165	
Chloroform	50000	50100	100	7	30	76-120	
Chloromethane	50000	37800	76	6	30	33-132	
cis-1,2-Dichloroethene	50000	50100	100	6	30	70-120	
cis-1,3-Dichloropropene	50000	46500	93	1	30	51-120	
Dibromomethane	50000	50400	101	3	30	77-121	
Bromochloromethane	50000	50100	100	5	30	73-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXC4858.D

Lab ID: 240-42438-1 MSD Client ID: WSP-1-092614 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Dichlorodifluoromethane	50000	30000	60	7	30	17-128	
Bromodichloromethane	50000	47900	96	1	30	67-120	
tert-Butyl alcohol	500000	458000	71	22	30	70-130	
Ethylbenzene	50000	48600	97	8	30	75-120	
Hexachlorobutadiene	50000	40600	81	2	30	27-132	
Isopropylbenzene	50000	48500	97	10	30	68-120	
Methyl tert-butyl ether	50000	50400	101	2	30	46-144	
Methylene Chloride	50000	52700	105	7	30	63-128	
m-Xylene & p-Xylene	50000	49400	99	8	30	75-120	
Naphthalene	50000	47300	95	9	30	15-158	
n-Butylbenzene	50000	42400	85	5	30	56-127	
N-Propylbenzene	50000	45700	91	8	30	64-124	
o-Xylene	50000	49800	100	10	30	76-120	
sec-Butylbenzene	50000	43700	87	7	30	60-120	
Styrene	50000	53200	106	6	30	71-120	
Tetrachloroethene	50000	48900	98	7	30	70-120	
Toluene	50000	49500	99	7	30	78-120	
trans-1,2-Dichloroethene	50000	50400	101	5	30	80-120	
trans-1,3-Dichloropropene	50000	47600	95	1	30	46-120	
Trichloroethene	50000	147000	78	6	30	66-120	
Trichlorofluoromethane	50000	40500	81	6	30	46-157	
Vinyl acetate	40000	30200	76	12	30	43-157	
Vinyl chloride	50000	39700	79	6	30	49-130	
Xylenes, Total	100000	99200	99	9	30	76-120	
tert-Butylbenzene	50000	38200	76	6	30	61-120	
1,2-Dibromoethane	50000	53000	106	4	30	74-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab File ID: UXC4784.D Lab Sample ID: MB 240-149718/18

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 10/02/2014 14:57

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 240-149718/16	UXC4782.D	10/02/2014 14:12
WSP-2-092614	240-42438-2	UXC4793.D	10/02/2014 18:20
WSP-3-092614	240-42438-3	UXC4794.D	10/02/2014 18:42
WSP-4-092614	240-42438-4	UXC4795.D	10/02/2014 19:05
TB-092614	240-42438-5	UXC4796.D	10/02/2014 19:27

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab File ID: UXC4836.D Lab Sample ID: MB 240-149984/32

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX15 Date Analyzed: 10/03/2014 12:46

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 240-149984/4	UXC4831.D	10/03/2014 10:53
WSP-1-092614	240-42438-1	UXC4838.D	10/03/2014 13:31
WSP-1-092614 MS	240-42438-1 MS	UXC4857.D	10/03/2014 20:39
WSP-1-092614 MSD	240-42438-1 MSD	UXC4858.D	10/03/2014 21:01

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab File ID: BFB497.D BFB Injection Date: 10/02/2014

Instrument ID: A3UX15 BFB Injection Time: 07:59

Analysis Batch No.: 149718

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.4	
75	30.0 - 60.0 % of mass 95	48.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.4	(0.5)1
174	50.0 - 120.00 % of mass 95	76.0	
175	5.0 - 9.0 % of mass 174	5.2	(6.8)1
176	95.0 - 101.0 % of mass 174	73.4	(96.6)1
177	5.0 - 9.0 % of mass 176	5.1	(6.9)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 240-149718/2	UXC4768.D	10/02/2014	08:39
	STD8260 240-149718/3	UXC4769.D	10/02/2014	09:02
	STD8260 240-149718/4	UXC4770.D	10/02/2014	09:24
	STD8260 240-149718/5	UXC4771.D	10/02/2014	09:46
	STD8260 240-149718/6	UXC4772.D	10/02/2014	10:09
	STD8260 240-149718/7	UXC4773.D	10/02/2014	10:32
	STD 240-149718/8	UXC4774.D	10/02/2014	11:11
	STD 240-149718/9	UXC4775.D	10/02/2014	11:34
	STD 240-149718/10	UXC4776.D	10/02/2014	11:56
	STD 240-149718/11	UXC4777.D	10/02/2014	12:19
	STD 240-149718/12	UXC4778.D	10/02/2014	12:41
	STD 240-149718/13	UXC4779.D	10/02/2014	13:04
	ICV 240-149718/14	UXC4780.D	10/02/2014	13:26
	ICV 240-149718/15	UXC4781.D	10/02/2014	13:49
	LCS 240-149718/16	UXC4782.D	10/02/2014	14:12
	MB 240-149718/18	UXC4784.D	10/02/2014	14:57
WSP-2-092614	240-42438-2	UXC4793.D	10/02/2014	18:20
WSP-3-092614	240-42438-3	UXC4794.D	10/02/2014	18:42
WSP-4-092614	240-42438-4	UXC4795.D	10/02/2014	19:05
TB-092614	240-42438-5	UXC4796.D	10/02/2014	19:27

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab File ID: BFB498.D BFB Injection Date: 10/03/2014

Instrument ID: A3UX15 BFB Injection Time: 10:02

Analysis Batch No.: 149984

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	48.8	
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	0.5	(0.6)1
174	50.0 - 120.00 % of mass 95	81.1	
175	5.0 - 9.0 % of mass 174	5.2	(6.4)1
176	95.0 - 101.0 % of mass 174	78.2	(96.4)1
177	5.0 - 9.0 % of mass 176	4.6	(5.8)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 240-149984/2	UXC4830.D	10/03/2014	10:30
	LCS 240-149984/4	UXC4831.D	10/03/2014	10:53
	CCV 240-149984/3	UXC4832.D	10/03/2014	11:15
	MB 240-149984/32	UXC4836.D	10/03/2014	12:46
WSP-1-092614	240-42438-1	UXC4838.D	10/03/2014	13:31
WSP-1-092614 MS	240-42438-1 MS	UXC4857.D	10/03/2014	20:39
WSP-1-092614 MSD	240-42438-1 MSD	UXC4858.D	10/03/2014	21:01

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Sample No.: STD8260 240-149718/4 Date Analyzed: 10/02/2014 09:24

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC4770.D Heated Purge: (Y/N) N

Calibration ID: 24494

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1297045	5.21	823919	7.89	558008	10.12
UPPER LIMIT		2594090	5.71	1647838	8.39	1116016	10.62
LOWER LIMIT		648523	4.71	411960	7.39	279004	9.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-149718/14		1426351	5.21	955073	7.89	623628	10.12
ICV 240-149718/15		1291641	5.21	847463	7.89	530046	10.12
LCS 240-149718/16		1371789	5.21	825675	7.89	565633	10.12
MB 240-149718/18		1239264	5.21	834472	7.89	529995	10.12
240-42438-2	WSP-2-092614	1281702	5.21	808103	7.89	543096	10.12
240-42438-3	WSP-3-092614	1244152	5.21	759622	7.89	530780	10.12
240-42438-4	WSP-4-092614	1214451	5.21	750182	7.89	511961	10.12
240-42438-5	TB-092614	1235140	5.21	764775	7.89	530211	10.12
CCVIS 240-149984/2		1330784	5.21	857880	7.89	553405	10.12

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 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Sample No.: CCVIS 240-149984/2 Date Analyzed: 10/03/2014 10:30

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXC4830.D Heated Purge: (Y/N) N

Calibration ID: 24496

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1330784	5.21	857880	7.89	553405	10.12
UPPER LIMIT		2661568	5.71	1715760	8.39	1106810	10.62
LOWER LIMIT		665392	4.71	428940	7.39	276703	9.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-149984/4		1337540	5.21	827809	7.89	538498	10.12
CCV 240-149984/3		1311253	5.21	860509	7.89	529570	10.12
MB 240-149984/32		1197955	5.21	805930	7.89	502335	10.12
240-42438-1	WSP-1-092614	1261916	5.21	804886	7.89	513426	10.12
240-42438-1 MS	WSP-1-092614 MS	1081957	5.21	658923	7.89	455153	10.12
240-42438-1 MSD	WSP-1-092614 MSD	1155398	5.21	733277	7.89	500335	10.12

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-1-092614 | Lab Sample ID: 240-42438-1

Matrix: Water | Lab File ID: UXC4838.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/03/2014 13:31

Soil Aliquot Vol: | Dilution Factor: 5000

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

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

Analysis Batch No.: 149984 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	1400	U	5000	1400
71-55-6	1,1,1-Trichloroethane	1100	U	5000	1100
79-34-5	1,1,2,2-Tetrachloroethane	1100	U	5000	1100
76-13-1	1,1,2-Trichlorotrifluoroethane	1900	U	5000	1900
75-34-3	1,1-Dichloroethane	1300	U	5000	1300
75-35-4	1,1-Dichloroethene	2300	U	5000	2300
563-58-6	1,1-Dichloropropene	1100	U	5000	1100
87-61-6	1,2,3-Trichlorobenzene	1900	U	5000	1900
96-18-4	1,2,3-Trichloropropane	1500	U	5000	1500
526-73-8	1,2,3-Trimethylbenzene	2400	U	25000	2400
120-82-1	1,2,4-Trichlorobenzene	1600	U	5000	1600
95-63-6	1,2,4-Trimethylbenzene	2100	U	5000	2100
96-12-8	1,2-Dibromo-3-Chloropropane	4100	U	10000	4100
95-50-1	1,2-Dichlorobenzene	850	U	5000	850
107-06-2	1,2-Dichloroethane	1000	U	5000	1000
78-87-5	1,2-Dichloropropane	1100	U	5000	1100
541-73-1	1,3-Dichlorobenzene	850	U	5000	850
142-28-9	1,3-Dichloropropane	900	U	5000	900
106-46-7	1,4-Dichlorobenzene	800	U	5000	800
594-20-7	2,2-Dichloropropane	1300	U	5000	1300
78-93-3	2-Butanone (MEK)	20000	U	50000	20000
110-75-8	2-Chloroethyl vinyl ether	5800	U	50000	5800
95-49-8	2-Chlorotoluene	1000	U	5000	1000
591-78-6	2-Hexanone	19000	U	50000	19000
106-43-4	4-Chlorotoluene	1100	U	5000	1100
99-87-6	4-Isopropyltoluene	2200	U	5000	2200
108-10-1	4-Methyl-2-pentanone (MIBK)	18000	U	50000	18000
67-64-1	Acetone	17000	U	50000	17000
71-43-2	Benzene	1200	U	5000	1200
108-86-1	Bromobenzene	600	U	5000	600
75-25-2	Bromoform	2800	U	5000	2800
74-83-9	Bromomethane	3200	U	5000	3200
75-15-0	Carbon disulfide	1400	U	5000	1400
56-23-5	Carbon tetrachloride	850	U	5000	850
108-90-7	Chlorobenzene	950	U	5000	950
124-48-1	Chlorodibromomethane	2200	U	5000	2200

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-1-092614 | Lab Sample ID: 240-42438-1

Matrix: Water | Lab File ID: UXC4838.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/03/2014 13:31

Soil Aliquot Vol: | Dilution Factor: 5000

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

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

Analysis Batch No.: 149984 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	1700	U	5000	1700
67-66-3	Chloroform	1100	U	5000	1100
74-87-3	Chloromethane	2200	U	5000	2200
156-59-2	cis-1,2-Dichloroethene	1000	U	5000	1000
10061-01-5	cis-1,3-Dichloropropene	2300	U	5000	2300
74-95-3	Dibromomethane	850	U	5000	850
74-97-5	Bromochloromethane	1300	U	5000	1300
75-71-8	Dichlorodifluoromethane	2500	U	5000	2500
75-27-4	Bromodichloromethane	750	U	5000	750
75-65-0	tert-Butyl alcohol	100000	J	250000	43000
100-41-4	Ethylbenzene	1200	U	5000	1200
87-68-3	Hexachlorobutadiene	1800	U	5000	1800
108-20-3	Diisopropyl ether	950	U	50000	950
98-82-8	Isopropylbenzene	1800	U	5000	1800
1634-04-4	Methyl tert-butyl ether	800	U	5000	800
75-09-2	Methylene Chloride	1400	U	5000	1400
179601-23-1	m-Xylene & p-Xylene	1100	U	10000	1100
91-20-3	Naphthalene	2300	U	5000	2300
104-51-8	n-Butylbenzene	1100	U	5000	1100
103-65-1	N-Propylbenzene	2000	U	5000	2000
95-47-6	o-Xylene	1100	U	5000	1100
135-98-8	sec-Butylbenzene	2400	U	5000	2400
100-42-5	Styrene	2300	U	5000	2300
994-05-8	Tert-amyl methyl ether	800	U	25000	800
637-92-3	Ethyl tert-butyl ether	1000	U	25000	1000
127-18-4	Tetrachloroethene	1000	U	5000	1000
108-88-3	Toluene	1100	U	5000	1100
156-60-5	trans-1,2-Dichloroethene	1300	U	5000	1300
10061-02-6	trans-1,3-Dichloropropene	2800	U	5000	2800
79-01-6	Trichloroethene	110000		5000	750
75-69-4	Trichlorofluoromethane	2500	U	5000	2500
108-05-4	Vinyl acetate	2100	U	10000	2100
75-01-4	Vinyl chloride	1500	U	5000	1500
1330-20-7	Xylenes, Total	2200	U	10000	2200
98-06-6	tert-Butylbenzene	2100	U	5000	2100
106-93-4	1,2-Dibromoethane	950	U	5000	950

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-1-092614 Lab Sample ID: 240-42438-1

Matrix: Water Lab File ID: UXC4838.D

Analysis Method: 8260C Date Collected: 09/26/2014 15:00

Sample wt/vol: 5(mL) Date Analyzed: 10/03/2014 13:31

Soil Aliquot Vol: Dilution Factor: 5000

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 149984 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	85		74-120
1868-53-7	Dibromofluoromethane (Surr)	82		75-121
460-00-4	4-Bromofluorobenzene (Surr)	83		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-2-092614 | Lab Sample ID: 240-42438-2

Matrix: Water | Lab File ID: UXC4793.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	6.0	J	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-2-092614 | Lab Sample ID: 240-42438-2

Matrix: Water | Lab File ID: UXC4793.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:05

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.25	J	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-2-092614 Lab Sample ID: 240-42438-2

Matrix: Water Lab File ID: UXC4793.D

Analysis Method: 8260C Date Collected: 09/26/2014 15:05

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 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.: 149718 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	85		74-120
1868-53-7	Dibromofluoromethane (Surr)	87		75-121
460-00-4	4-Bromofluorobenzene (Surr)	89		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-3-092614 | Lab Sample ID: 240-42438-3

Matrix: Water | Lab File ID: UXC4794.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 18:42

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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-3-092614 | Lab Sample ID: 240-42438-3

Matrix: Water | Lab File ID: UXC4794.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 18:42

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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-3-092614 Lab Sample ID: 240-42438-3

Matrix: Water Lab File ID: UXC4794.D

Analysis Method: 8260C Date Collected: 09/26/2014 15:15

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 18:42

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.: 149718 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	86		74-120
1868-53-7	Dibromofluoromethane (Surr)	89		75-121
460-00-4	4-Bromofluorobenzene (Surr)	89		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-4-092614 | Lab Sample ID: 240-42438-4

Matrix: Water | Lab File ID: UXC4795.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 19:05

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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-4-092614 | Lab Sample ID: 240-42438-4

Matrix: Water | Lab File ID: UXC4795.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:15

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 19:05

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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-4-092614 Lab Sample ID: 240-42438-4

Matrix: Water Lab File ID: UXC4795.D

Analysis Method: 8260C Date Collected: 09/26/2014 15:15

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 19:05

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.: 149718 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	86		74-120
1868-53-7	Dibromofluoromethane (Surr)	88		75-121
460-00-4	4-Bromofluorobenzene (Surr)	88		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: TB-092614 | Lab Sample ID: 240-42438-5

Matrix: Water | Lab File ID: UXC4796.D

Analysis Method: 8260C | Date Collected: 09/26/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 19:27

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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: TB-092614 | Lab Sample ID: 240-42438-5

Matrix: Water | Lab File ID: UXC4796.D

Analysis Method: 8260C | Date Collected: 09/26/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 19:27

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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: TB-092614 Lab Sample ID: 240-42438-5

Matrix: Water Lab File ID: UXC4796.D

Analysis Method: 8260C Date Collected: 09/26/2014 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 19:27

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.: 149718 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		74-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-121
460-00-4	4-Bromofluorobenzene (Surr)	91		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-149718/7	UXC4773.D
Level 2	STD8260 240-149718/6	UXC4772.D
Level 3	STD8260 240-149718/5	UXC4771.D
Level 4	STD8260 240-149718/4	UXC4770.D
Level 5	STD8260 240-149718/3	UXC4769.D
Level 6	STD8260 240-149718/2	UXC4768.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	0.6151 0.5261	0.5948	0.6413	0.6318	0.5936	Ave		0.6004			0.1000	6.9		15.0			
Chloromethane	0.7335 0.4952	0.6824	0.6846	0.6934	0.5920	Ave		0.6469			0.1000	14.0		15.0			
Vinyl chloride	0.6722 0.5090	0.6419	0.6540	0.6524	0.5696	Ave		0.6165			0.1000	10.0		15.0			
Bromomethane	0.3076 0.1833	0.2803	0.3071	0.3094	0.2449	Qua	0.0102	0.3213	-0.003470		0.0500				0.9980		0.9900
Chloroethane	0.3713 0.2430	0.3339	0.3712	0.3549	0.3002	Ave		0.3291				15.0		15.0			
Dichlorofluoromethane	0.7933 0.6075	0.7548	0.8367	0.8393	0.7272	Ave		0.7598				11.0		15.0			
Trichlorofluoromethane	0.7248 0.5465	0.7018	0.7346	0.7413	0.6713	Ave		0.6867			0.1000	11.0		15.0			
Ethyl ether	0.2959 0.2456	0.3256	0.3117	0.3204	0.2819	Ave		0.2969				10.0		15.0			
Acrolein	0.0046 0.0140	0.0036	0.0061	0.0070	0.0098	Qua	-0.016	0.0055	0.0000430						1.0000		0.9900
1,1-Dichloroethene	0.4544 0.3918	0.4793	0.4843	0.4882	0.4345	Ave		0.4554			0.1000	8.2		15.0			
1,1,2-Trichlorotrifluoroethane	0.4191 0.3255	0.3951	0.4118	0.4127	0.3696	Ave		0.3890			0.0500	9.2		15.0			
Acetone	0.0706 0.0859	0.0785	0.0819	0.0922	0.0870	Ave		0.0827			0.0500	9.1		15.0			
Iodomethane	0.7276 0.6231	0.7391	0.7511	0.7699	0.6783	Ave		0.7149				7.6		15.0			
Carbon disulfide	1.3846 1.3141	1.3993	1.4414	1.4885	1.3810	Ave		1.4015			0.1000	4.2		15.0			
3-Chloro-1-propene	0.2116 0.2597	0.2438	0.2614	0.2748	0.2555	Ave		0.2511				8.7		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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								
Methyl acetate	0.2150 0.1603	0.2079	0.2035	0.2033	0.1779	Ave		0.1946			0.1000	11.0		15.0			
Methylene Chloride	1.0025 0.4441	0.7635	0.6394	0.5950	0.4911	Lin1	0.6477	0.4535			0.1000				0.9910		0.9900
tert-Butyl alcohol	0.0057 0.0120	0.0077	0.0080	0.0078	0.0128	Qua	-0.165	0.0124	0.0000002						0.9910		0.9900
Acrylonitrile	0.0992 0.0941	0.1108	0.1146	0.1151	0.1050	Ave		0.1065				8.1		15.0			
Methyl tert-butyl ether	0.8296 0.7978	0.8983	0.9541	0.9683	0.8775	Ave		0.8876			0.1000	7.6		15.0			
trans-1,2-Dichloroethene	0.5089 0.4289	0.5240	0.5321	0.5392	0.4704	Ave		0.5006			0.1000	8.6		15.0			
Hexane	0.0957 0.0890	0.0978	0.0975	0.1014	0.0956	Ave		0.0962				4.3		15.0			
1,1-Dichloroethane	0.8090 0.7125	0.8324	0.8608	0.8562	0.7702	Ave		0.8068			0.1000	7.1		15.0			
Vinyl acetate	0.2839 0.2557	0.2336	0.2683	0.2611	0.2628	Ave		0.2609				6.3		15.0			
2,2-Dichloropropane	0.3659 0.4425	0.4202	0.4273	0.4535	0.4304	Ave		0.4233				7.2		15.0			
cis-1,2-Dichloroethene	0.5136 0.4470	0.5195	0.5386	0.5413	0.4799	Ave		0.5066			0.1000	7.2		15.0			
2-Butanone (MEK)	0.1009 0.0790	0.0787	0.0917	0.0812	0.0824	Ave		0.0856			0.0500	10.0		15.0			
Bromochloromethane	0.2189 0.1892	0.2211	0.2288	0.2322	0.2062	Ave		0.2161				7.4		15.0			
Tetrahydrofuran	0.0453 0.0493	0.0569	0.0503	0.0552	0.0510	Ave		0.0513				8.2		15.0			
Chloroform	0.7906 0.6826	0.7805	0.7937	0.8139	0.7279	Ave		0.7649				6.5		15.0			
1,1,1-Trichloroethane	0.5441 0.5808	0.5709	0.6049	0.6465	0.6038	Ave		0.5918			0.1000	5.9		15.0			
Cyclohexane	0.7614 0.7215	0.8007	0.8356	0.8443	0.7853	Ave		0.7915			0.1000	5.8		15.0			
1,1-Dichloropropene	0.4852 0.4791	0.4804	0.4946	0.5080	0.4861	Ave		0.4889				2.2		15.0			
Carbon tetrachloride	0.4187 0.5064	0.4589	0.4833	0.5201	0.5208	Ave		0.4847			0.1000	8.3		15.0			
Isobutyl alcohol	0.0031 0.0048	0.0033	0.0034	0.0049	0.0053	Lin1	-0.068	0.0050							0.9930		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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								
Benzene	1.5635 1.5437	1.5911	1.5873	1.6253	1.5387	Ave		1.5749			0.5000	2.1		15.0			
1,2-Dichloroethane	0.4475 0.4077	0.4184	0.4110	0.4231	0.4100	Ave		0.4196			0.1000	3.5		15.0			
n-Heptane	0.0729 0.0739	0.0762	0.0738	0.0782	0.0799	Ave		0.0758				3.7		15.0			
Trichloroethene	0.3482 0.3668	0.3288	0.3389	0.3568	0.3535	Ave		0.3488			0.2000	3.9		15.0			
Methylcyclohexane	0.6784 0.6560	0.7103	0.7472	0.7644	0.7162	Ave		0.7121			0.1000	5.7		15.0			
1,2-Dichloropropane	0.3233 0.3286	0.3111	0.3143	0.3348	0.3165	Ave		0.3215			0.1000	2.8		15.0			
Dibromomethane	0.1589 0.1603	0.1589	0.1509	0.1603	0.1568	Ave		0.1577				2.2		15.0			
1,4-Dioxane	0.0013 0.0025	0.0023	0.0026	0.0024	0.0021	Lin1	-0.013	0.0024							0.9920		0.9900
Bromodichloromethane	0.2913 0.3871	0.2949	0.3197	0.3518	0.3622	Ave		0.3345			0.1000	12.0		15.0			
2-Chloroethyl vinyl ether	0.0783 0.1061	0.0828	0.0922	0.0983	0.0913	Ave		0.0915				11.0		15.0			
cis-1,3-Dichloropropene	0.2194 0.3701	0.2185	0.2560	0.2842	0.3000	Qua	-0.009	0.2398	0.0032529		0.1500				1.0000		0.9900
4-Methyl-2-pentanone (MIBK)	0.1494 0.1588	0.1515	0.1685	0.1688	0.1636	Ave		0.1601			0.0500	5.2		15.0			
Toluene	2.0018 1.7537	2.0268	2.1193	2.2582	2.2228	Ave		2.0638			0.4000	8.9		15.0			
trans-1,3-Dichloropropene	0.2106 0.2967	0.2299	0.2743	0.3037	0.3344	Lin1	-0.119	0.3122			0.1000				0.9960		0.9900
Ethyl methacrylate	0.2776 0.2506	0.2667	0.3006	0.3255	0.3322	Ave		0.2922				11.0		15.0			
1,1,2-Trichloroethane	0.3117 0.2474	0.3033	0.3213	0.3380	0.3206	Ave		0.3070			0.1000	10.0		15.0			
Tetrachloroethene	0.3974 0.3271	0.3966	0.4117	0.4358	0.4302	Ave		0.3998			0.2000	9.8		15.0			
1,3-Dichloropropane	0.5633 0.4325	0.5298	0.5392	0.5615	0.5450	Ave		0.5285				9.2		15.0			
2-Hexanone	0.1855 0.1133	0.1617	0.1744	0.1708	0.1580	Qua	-0.124	0.2032	-0.001101		0.0500				1.0000		0.9900
Chlorodibromomethane	0.2216 0.2741	0.2262	0.2622	0.3099	0.3258	Lin1	-0.082	0.2956							0.9910		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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-Dibromoethane	0.2596 0.2227	0.2476	0.2651	0.2994	0.2792	Ave		0.2623				10.0		15.0			
Chlorobenzene	1.3698 1.0638	1.3248	1.3264	1.3805	1.3482	Ave		1.3023			0.3000	9.1		15.0			
1,1,1,2-Tetrachloroethane	0.3798 0.3944	0.3890	0.4339	0.5083	0.5247	Ave		0.4384				14.0		15.0			
Ethylbenzene	0.7323 0.6215	0.7404	0.7809	0.8620	0.8205	Ave		0.7596				11.0		15.0			
m-Xylene & p-Xylene	1.7414 1.5754	1.8287	1.8841	2.0743	2.0518	Ave		1.8593				10.0		15.0			
o-Xylene	0.9126 0.7975	0.9289	1.0390	1.1369	1.0931	Ave		0.9847				13.0		15.0			
Styrene	1.1981 1.1025	1.2216	1.3703	1.4965	1.4532	Ave		1.3070			0.3000	12.0		15.0			
Bromoform	0.1337 0.1417	0.1240	0.1412	0.1630	0.1734	Ave		0.1462			0.1000	13.0		15.0			
Isopropylbenzene	2.2477 2.1838	2.4480	2.6204	2.9861	2.9393	Ave		2.5709			0.1000	13.0		15.0			
1,1,2,2-Tetrachloroethane	0.6625 0.6850	0.6405	0.6632	0.7145	0.7178	Ave		0.6806			0.3000	4.5		15.0			
Bromobenzene	0.8834 0.9447	0.8159	0.8705	0.9313	0.9245	Ave		0.8951				5.4		15.0			
1,2,3-Trichloropropane	0.2167 0.2146	0.2012	0.2218	0.2340	0.2236	Ave		0.2186				5.0		15.0			
trans-1,4-Dichloro-2-butene	0.0435 0.1389	0.0578	0.0721	0.0877	0.0974	Qua	0	0.0613	0.0019369						1.0000		0.9900
N-Propylbenzene	0.8589 1.1627	0.9578	1.0129	1.1773	1.1749	Ave		1.0574				13.0		15.0			
2-Chlorotoluene	0.8606 1.0170	0.8647	0.9126	1.0314	1.0208	Ave		0.9512				8.5		15.0			
1,3,5-Trimethylbenzene	2.6110 3.9300	2.8430	3.1674	3.7244	3.8595	Lin1	-1.851	3.9343							0.9990		0.9900
4-Chlorotoluene	3.0132 3.3470	3.0610	3.0701	3.4126	3.2938	Ave		3.1996				5.4		15.0			
tert-Butylbenzene	1.9850 3.2275	2.0647	2.3184	2.7320	3.0130	Lin1	-1.902	3.1513							0.9950		0.9900
1,2,4-Trimethylbenzene	2.8439 4.0670	3.1796	3.4291	3.9605	4.0179	Ave		3.5830				14.0		15.0			
sec-Butylbenzene	3.1990 4.5845	3.4040	3.6662	4.3418	4.5447	Ave		3.9567				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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

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								
1,3-Dichlorobenzene	1.9334 1.9605	1.9455	1.9062	2.0941	1.9732	Ave		1.9688			0.6000	3.3		15.0			
4-Isopropyltoluene	2.8530 4.0984	3.1037	3.3761	3.9529	4.0511	Ave		3.5725				15.0		15.0			
1,4-Dichlorobenzene	1.9952 1.9477	2.0143	1.9544	2.0924	1.9775	Ave		1.9969			0.5000	2.7		15.0			
n-Butylbenzene	2.6831 3.3901	2.8014	2.9281	3.3935	3.4611	Ave		3.1095				11.0		15.0			
1,2-Dichlorobenzene	1.9768 1.9538	1.9197	1.9314	2.1255	2.0001	Ave		1.9845			0.4000	3.8		15.0			
1,2-Dibromo-3-Chloropropane	0.1032 0.1222	0.0873	0.1061	0.1124	0.1171	Ave		0.1081			0.0500	11.0		15.0			
1,2,4-Trichlorobenzene	1.2590 1.4251	1.2979	1.2858	1.4739	1.4555	Ave		1.3662			0.2000	7.0		15.0			
Hexachlorobutadiene	0.6091 0.5851	0.6044	0.5636	0.6235	0.6336	Ave		0.6032				4.2		15.0			
Naphthalene	2.0045 2.9480	2.2549	2.4593	2.9789	3.0081	Lin1	-1.262	3.0032							0.9990		0.9900
1,2,3-Trichlorobenzene	1.0981 1.2114	1.2489	1.1415	1.3164	1.2706	Ave		1.2145				6.8		15.0			
Dibromofluoromethane (Surr)	0.3698 0.3378	0.3751	0.3874	0.3883	0.3626	Ave		0.3702				5.1		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3989 0.3364	0.3579	0.3643	0.3629	0.3449	Ave		0.3609				6.0		15.0			
Toluene-d8 (Surr)	1.6991 1.5188	1.6850	1.8292	1.9734	1.9548	Ave		1.7767				9.9		15.0			
4-Bromofluorobenzene (Surr)	0.6756 0.4929	0.6820	0.6917	0.7203	0.6609	Ave		0.6539				12.0		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-149718/7	UXC4773.D
Level 2	STD8260 240-149718/6	UXC4772.D
Level 3	STD8260 240-149718/5	UXC4771.D
Level 4	STD8260 240-149718/4	UXC4770.D
Level 5	STD8260 240-149718/3	UXC4769.D
Level 6	STD8260 240-149718/2	UXC4768.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	80914 3305099	155283	414347	819447	1792207	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	96491 3111272	178149	442284	899404	1787298	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	88425 3197900	167595	422507	846169	1719779	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Qua	40458 1151530	73181	198423	401322	739335	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	48839 1526748	87171	239830	460273	906434	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	104354 3816665	197066	540552	1088633	2195642	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	95342 3433330	183235	474566	961557	2026837	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	38925 1543203	85017	201378	415626	851115	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Qua	3006 440541	4764	19758	45179	147490	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	59774 2461643	125142	312908	633248	1311720	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	55126 2045195	103152	266020	535246	1115829	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Ave	18561 1079632	40992	105787	239288	525275	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	95710 3914667	192964	485239	998565	2048071	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	182127 8255769	365333	931239	1930649	4169468	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	27833 1631812	63650	168883	356439	771510	1.00 40.0	2.00	5.00	10.0	20.0
Methyl acetate	FB	Ave	141412 5034215	271361	657494	1318244	2685791	5.00 200	10.0	25.0	50.0	100

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methylene Chloride	FB	Lin1	131876 2789954	199336	413080	771788	1482673	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butyl alcohol	FB	Qua	7529 755075	20018	51390	101612	385843	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	130512 5908886	289333	740456	1492315	3169453	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	109131 5012548	234516	616401	1255921	2649326	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	66939 2694323	136803	343796	699402	1420119	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	12588 558899	25532	63021	131582	288525	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	106421 4476345	217324	556124	1110489	2325361	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	35854 1542188	58542	166380	325121	761674	0.960 38.4	1.92	4.80	9.60	19.2
2,2-Dichloropropane	FB	Ave	48129 2779979	109693	276066	588263	1299455	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	67556 2808098	135636	347947	702126	1449026	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	26541 992520	41084	118460	210566	497757	2.00 80.0	4.00	10.0	20.0	40.0
Bromochloromethane	FB	Ave	28789 1188438	57730	147805	301149	622635	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	11920 619292	29723	65031	143117	307897	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	103990 4288196	203778	512801	1055661	2197815	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	71568 3648905	149041	390782	838536	1823087	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	100156 4532732	209057	539872	1095124	2371047	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	63825 3010068	125413	319540	658891	1467603	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	55078 3181782	119804	312228	674640	1572416	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	FB	Lin1	10148 748999	21642	55668	158502	396615	25.0 1000	50.0	125	250	500
Benzene	FB	Ave	205669 9698498	415412	1025473	2108104	4645634	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	58859 2561660	109229	265500	548770	1238021	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Heptane	FB	Ave	9588 464493	19884	47665	101382	241333	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	45796 2304206	85850	218962	462830	1067365	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	89231 4121521	185455	482763	991442	2162404	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	42532 2064691	81231	203076	434283	955582	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	20902 1006843	41492	97498	207867	473542	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Lin1	3480 310917	12245	33912	62700	126522	20.0 800	40.0	100	200	400
Bromodichloromethane	FB	Ave	38317 2432192	76992	206563	456244	1093680	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	20594 1333683	43256	119087	254995	551242	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Qua	28856 2325003	57052	165413	368684	905648	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	39311 1994914	79082	217710	438008	988009	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	159572 9198744	338382	890578	1860569	4103285	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Lin1	16788 1556450	38384	115272	250254	617336	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	22133 1314617	44525	126327	268169	613178	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	24845 1297859	50635	134994	278483	591821	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	31679 1715716	66215	173010	359043	794104	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	44906 2268588	88444	226569	462649	1006039	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Qua	29581 1188891	53992	146542	281435	583413	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Lin1	17669 1437596	37758	110196	255303	601362	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	20692 1168295	41342	111412	246704	515377	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	109199 5579716	221186	557386	1137444	2488789	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	30279 2068767	64943	182313	418799	968637	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethylbenzene	CBZ	Ave	58378 3259988	123616	328151	710222	1514603	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	138817 8263341	305306	791712	1709034	3787588	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	72752 4182964	155088	436609	936753	2017805	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	95506 5782974	203949	575836	1232989	2682649	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	10662 743482	20702	59328	134265	320022	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	179181 11454870	408692	1101109	2460334	5425947	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	36888 1655089	74971	194450	398669	843113	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	49190 2282357	95505	255240	519686	1086015	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	12064 518465	23551	65025	130594	262595	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Qua	2423 335679	6767	21144	48911	114466	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	47827 2809040	112106	296998	656955	1380070	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	47918 2457202	101212	267604	575545	1199078	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Lin1	145385 9495055	332763	928739	2078260	4533636	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	167783 8086490	358281	900219	1904251	3869071	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Lin1	110531 7797661	241669	679792	1524460	3539195	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	158353 9825988	372169	1005488	2209996	4719636	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	178131 11076305	398433	1074998	2422766	5338523	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	107656 4736752	227723	558930	1168532	2317861	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	158863 9901775	363278	989932	2205738	4758624	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	111096 4705709	235770	573051	1167551	2322834	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	149402 8190547	327897	858576	1893587	4065639	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:39 Calibration End Date: 10/02/2014 10:32 Calibration ID: 24494

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	110075 4720361	224700	566310	1186053	2349441	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	5748 295294	10224	31125	62707	137579	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	70106 3443084	151916	377030	822440	1709705	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	33917 1413533	70745	165251	347936	744219	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Lin1	111616 7122450	263934	721099	1662238	3533484	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	61143 2926760	146186	334694	734554	1492488	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	48645 2122061	97922	250305	503624	1094630	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	52466 2113337	93445	235377	470695	1041322	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	135445 7966350	281319	768669	1625932	3608500	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	53853 2585568	113861	290641	593486	1220060	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 11:11 Calibration End Date: 10/02/2014 13:04 Calibration ID: 24496

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-149718/13	UXC4779.D
Level 2	STD 240-149718/12	UXC4778.D
Level 3	STD 240-149718/11	UXC4777.D
Level 4	STD 240-149718/10	UXC4776.D
Level 5	STD 240-149718/9	UXC4775.D
Level 6	STD 240-149718/8	UXC4774.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								
Acetonitrile	0.0126 0.0348	0.0197	0.0142	0.0347	0.0303	Qua	-0.272	0.0301	0.0000131						0.9950		0.9900
Diisopropyl ether	0.3698 0.4097	0.3398	0.3801	0.3735	0.3846	Ave		0.3762				6.0		15.0			
2-Chloro-1,3-butadiene	0.5513 0.7085	0.5604	0.6167	0.6138	0.6500	Ave		0.6168				9.5		15.0			
Ethyl tert-butyl ether	0.9425 1.0556	0.9300	0.9946	0.9740	0.9882	Ave		0.9808				4.5		15.0			
Ethyl acetate	0.0507 0.0435	0.0448	0.0430	0.0402	0.0467	Ave		0.0448				8.0		15.0			
Propionitrile	0.0381 0.0353	0.0392	0.0435	0.0357	0.0332	Ave		0.0375				9.7		15.0			
Methacrylonitrile	0.1246 0.1397	0.1168	0.1369	0.1259	0.1357	Ave		0.1299				6.8		15.0			
Tert-amyl methyl ether	0.7448 0.8172	0.7103	0.7506	0.7431	0.7588	Ave		0.7542				4.6		15.0			
n-Butanol	0.0041 0.0032	0.0032	0.0036	0.0034	0.0039	Ave		0.0036				11.0		15.0			
Ethyl acrylate	0.1409 0.1496	0.1456	0.1520	0.1462	0.1774	Ave		0.1520				8.6		15.0			
Methyl methacrylate	0.1109 0.1333	0.1219	0.1292	0.1219	0.1475	Ave		0.1274				9.8		15.0			
2-Nitropropane	0.0259 0.0206	0.0185	0.0205	0.0202	0.0210	Ave		0.0211				12.0		15.0			
1-Chlorohexane	0.4748 0.5662	0.4608	0.4806	0.5061	0.5394	Ave		0.5046				8.1		15.0			
Cyclohexanone	0.0207 0.0172	0.0198	0.0190	0.0162	0.0195	Ave		0.0187				9.0		15.0			
1,2,3-Trimethylbenzene	2.8991 4.1479	2.8800	3.3241	3.4653	3.9638	Ave		3.4467				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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 11:11 Calibration End Date: 10/02/2014 13:04 Calibration ID: 24496

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								
1,3,5-Trichlorobenzene	1.5505 1.5062	1.4920	1.4996	1.4649	1.4862	Ave		1.4999				1.9		15.0			
2-Methylnaphthalene	1.1458 1.3070	1.1033	1.6854	1.5450	1.5256	Qua	-1.687	1.7914	-0.005785						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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 11:11 Calibration End Date: 10/02/2014 13:04 Calibration ID: 24496

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-149718/13	UXC4779.D
Level 2	STD 240-149718/12	UXC4778.D
Level 3	STD 240-149718/11	UXC4777.D
Level 4	STD 240-149718/10	UXC4776.D
Level 5	STD 240-149718/9	UXC4775.D
Level 6	STD 240-149718/8	UXC4774.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Qua	15418 1754998	48732	90210	447276	833407	10.0 400	20.0	50.0	100	200
Diisopropyl ether	FB	Ave	45199 2067857	83941	240676	481296	1059280	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	67380 3576147	138429	390441	791001	1790333	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	115203 5328428	229736	629709	1255124	2722042	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	12385 439263	22118	54487	103583	257189	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	46601 1782956	96918	275538	460403	913610	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	152285 7049770	288636	866946	1621844	3737871	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	91035 4125231	175478	475246	957606	2090083	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	FB	Ave	12378 401127	19669	56628	108754	270924	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	17219 755168	35971	96259	188437	488764	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	27111 1345324	60249	163571	314227	812523	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	6331 208183	9148	26004	52073	115425	2.00 80.0	4.00	10.0	20.0	40.0
1-Chlorohexane	CBZ	Ave	37439 1835896	72743	201067	418672	1028784	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Ave	10636 345280	20151	50517	86200	223034	10.0 400	20.0	50.0	100	200
1,2,3-Trimethylbenzene	DCB	Ave	148637 8305810	293166	885887	1840779	4532020	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	79494 3015976	151880	399658	778170	1699208	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42438-1 Analy Batch No.: 149718

SDG No.:

Instrument ID: A3UX15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 11:11 Calibration End Date: 10/02/2014 13:04 Calibration ID: 24496

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methylnaphthalene	DCB	Qua	117497 5234370	224625	898333	1641428	3488611	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Qua = Quadratic ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab Sample ID: ICV 240-149718/14 Calibration Date: 10/02/2014 13:26

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:32

Lab File ID: UXC4780.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	0.6004	0.4150	0.1000	0.00691	0.0100	-30.9*	20.0
Chloromethane	Ave	0.6469	0.5058	0.1000	0.00782	0.0100	-21.8*	20.0
Vinyl chloride	Ave	0.6165	0.5116	0.1000	0.00830	0.0100	-17.0	20.0
Bromomethane	Qua		0.2171	0.0500	0.00730	0.0100	-27.0*	20.0
Chloroethane	Ave	0.3291	0.2736	0.0500	0.00831	0.0100	-16.9	20.0
Dichlorofluoromethane	Ave	0.7598	0.6032		0.00794	0.0100	-20.6*	20.0
Trichlorofluoromethane	Ave	0.6867	0.5483	0.1000	0.00798	0.0100	-20.2*	20.0
Ethyl ether	Ave	0.2969	0.3332		0.0112	0.0100	12.2	20.0
Acrolein	Qua		0.0057		0.0411	0.0500	-17.9	20.0
1,1-Dichloroethene	Ave	0.4554	0.4378	0.1000	0.00961	0.0100	-3.9	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.3890	0.3606	0.0500	0.00927	0.0100	-7.3	20.0
Acetone	Ave	0.0827	0.0773	0.0500	0.0187	0.0200	-6.6	20.0
Iodomethane	Ave	0.7149	0.7276		0.0102	0.0100	1.8	20.0
Carbon disulfide	Ave	1.401	1.358	0.1000	0.00969	0.0100	-3.1	20.0
3-Chloro-1-propene	Ave	0.2511	0.2360		0.00940	0.0100	-6.0	20.0
Methyl acetate	Ave	0.1946	0.1931	0.1000	0.0496	0.0500	-0.8	20.0
Methylene Chloride	Lin1		0.5393	0.1000	0.0105	0.0100	4.6	20.0
tert-Butyl alcohol	Qua		0.0077		0.0748	0.100	-25.2*	20.0
Acrylonitrile	Ave	0.1065	0.1104		0.104	0.100	3.7	20.0
Methyl tert-butyl ether	Ave	0.8876	0.8917	0.1000	0.0100	0.0100	0.5	20.0
trans-1,2-Dichloroethene	Ave	0.5006	0.5021	0.1000	0.0100	0.0100	0.3	20.0
Hexane	Ave	0.0962	0.0982		0.0102	0.0100	2.1	20.0
1,1-Dichloroethane	Ave	0.8068	0.8105	0.1000	0.0100	0.0100	0.4	20.0
Vinyl acetate	Ave	0.2609	0.2184		0.00670	0.00800	-16.3	20.0
2,2-Dichloropropane	Ave	0.4233	0.3425		0.00809	0.0100	-19.1	20.0
cis-1,2-Dichloroethene	Ave	0.5066	0.4973	0.1000	0.00982	0.0100	-1.8	20.0
2-Butanone (MEK)	Ave	0.0856	0.0843	0.0500	0.0197	0.0200	-1.5	20.0
Bromochloromethane	Ave	0.2161	0.2207		0.0102	0.0100	2.1	20.0
Tetrahydrofuran	Ave	0.0513	0.0549		0.0214	0.0200	7.0	20.0
Chloroform	Ave	0.7649	0.7441	0.2000	0.00973	0.0100	-2.7	20.0
1,1,1-Trichloroethane	Ave	0.5918	0.5391	0.1000	0.00911	0.0100	-8.9	20.0
Cyclohexane	Ave	0.7915	0.7587	0.1000	0.00959	0.0100	-4.1	20.0
1,1-Dichloropropene	Ave	0.4889	0.5183		0.0106	0.0100	6.0	20.0
Carbon tetrachloride	Ave	0.4847	0.4503	0.1000	0.00929	0.0100	-7.1	20.0
Isobutyl alcohol	Lin1		0.0053		0.280	0.250	11.8	20.0
Benzene	Ave	1.575	1.569	0.5000	0.00996	0.0100	-0.4	20.0
1,2-Dichloroethane	Ave	0.4196	0.4265	0.1000	0.0102	0.0100	1.6	20.0
n-Heptane	Ave	0.0758	0.0752		0.00992	0.0100	-0.8	20.0
Trichloroethene	Ave	0.3488	0.3591	0.2000	0.0103	0.0100	2.9	20.0
Methylcyclohexane	Ave	0.7121	0.6858	0.1000	0.00963	0.0100	-3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab Sample ID: ICV 240-149718/14 Calibration Date: 10/02/2014 13:26

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:32

Lab File ID: UXC4780.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-Dichloropropane	Ave	0.3215	0.3192	0.1000	0.00993	0.0100	-0.7	20.0
Dibromomethane	Ave	0.1577	0.1695		0.0107	0.0100	7.5	20.0
1,4-Dioxane	Lin1		0.0018		0.154	0.200	-22.9*	20.0
Bromodichloromethane	Ave	0.3345	0.3395	0.1000	0.0102	0.0100	1.5	20.0
2-Chloroethyl vinyl ether	Ave	0.0915	0.1073		0.0141	0.0120	17.2	20.0
cis-1,3-Dichloropropene	Qua		0.2946	0.1500	0.0108	0.0100	7.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1601	0.1879	0.0500	0.0235	0.0200	17.4	20.0
Toluene	Ave	2.064	2.096	0.4000	0.0102	0.0100	1.6	20.0
trans-1,3-Dichloropropene	Lin1		0.3164	0.1000	0.0105	0.0100	5.1	20.0
Ethyl methacrylate	Ave	0.2922	0.3660		0.0125	0.0100	25.3*	20.0
1,1,2-Trichloroethane	Ave	0.3070	0.3258	0.1000	0.0106	0.0100	6.1	20.0
Tetrachloroethene	Ave	0.3998	0.4022	0.2000	0.0101	0.0100	0.6	20.0
1,3-Dichloropropane	Ave	0.5285	0.5597		0.0106	0.0100	5.9	20.0
2-Hexanone	Qua		0.1747	0.0500	0.0200	0.0200	-0.1	20.0
Chlorodibromomethane	Lin1		0.2856		0.00994	0.0100	-0.6	20.0
1,2-Dibromoethane	Ave	0.2623	0.2882		0.0110	0.0100	9.9	20.0
Chlorobenzene	Ave	1.302	1.286	0.3000	0.00988	0.0100	-1.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4384	0.4099		0.00935	0.0100	-6.5	20.0
Ethylbenzene	Ave	0.7596	0.7600		0.0100	0.0100	0.0	20.0
m-Xylene & p-Xylene	Ave	1.859	1.885		0.0101	0.0100	1.4	20.0
o-Xylene	Ave	0.9847	1.000		0.0102	0.0100	1.6	20.0
Styrene	Ave	1.307	1.426	0.3000	0.0109	0.0100	9.1	20.0
Bromoform	Ave	0.1462	0.1473	0.1000	0.0101	0.0100	0.8	20.0
Isopropylbenzene	Ave	2.571	2.638	0.1000	0.0103	0.0100	2.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6806	0.7130	0.3000	0.0105	0.0100	4.8	20.0
Bromobenzene	Ave	0.8951	0.8773		0.00980	0.0100	-2.0	20.0
1,2,3-Trichloropropane	Ave	0.2186	0.2393		0.0109	0.0100	9.4	20.0
trans-1,4-Dichloro-2-butene	Qua		0.1038		0.0122	0.0100	22.2*	20.0
N-Propylbenzene	Ave	1.057	1.047		0.00990	0.0100	-1.0	20.0
2-Chlorotoluene	Ave	0.9512	0.9297		0.00977	0.0100	-2.3	20.0
1,3,5-Trimethylbenzene	Lin1		3.331		0.00894	0.0100	-10.6	20.0
4-Chlorotoluene	Ave	3.200	3.129		0.00978	0.0100	-2.2	20.0
tert-Butylbenzene	Lin1		2.516		0.00859	0.0100	-14.1	20.0
1,2,4-Trimethylbenzene	Ave	3.583	3.505		0.00978	0.0100	-2.2	20.0
sec-Butylbenzene	Ave	3.957	3.783		0.00956	0.0100	-4.4	20.0
1,3-Dichlorobenzene	Ave	1.969	1.852	0.6000	0.00941	0.0100	-5.9	20.0
4-Isopropyltoluene	Ave	3.573	3.441		0.00963	0.0100	-3.7	20.0
1,4-Dichlorobenzene	Ave	1.997	1.906	0.5000	0.00955	0.0100	-4.5	20.0
n-Butylbenzene	Ave	3.110	2.882		0.00927	0.0100	-7.3	20.0
1,2-Dichlorobenzene	Ave	1.985	1.893	0.4000	0.00954	0.0100	-4.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1081	0.1029	0.0500	0.00952	0.0100	-4.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab Sample ID: ICV 240-149718/14 Calibration Date: 10/02/2014 13:26

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:32

Lab File ID: UXC4780.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
1,2,4-Trichlorobenzene	Ave	1.366	1.188	0.2000	0.00870	0.0100	-13.0	20.0
Hexachlorobutadiene	Ave	0.6032	0.4675		0.00775	0.0100	-22.5*	20.0
Naphthalene	Lin1		2.489		0.00871	0.0100	-12.9	20.0
1,2,3-Trichlorobenzene	Ave	1.214	1.033		0.00851	0.0100	-14.9	20.0
Dibromofluoromethane (Surr)	Ave	0.3702	0.2961		0.00712	0.00890	-20.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3609	0.2930		0.00723	0.00890	-18.8	20.0
Toluene-d8 (Surr)	Ave	1.777	1.507		0.00755	0.00890	-15.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6539	0.5687		0.00774	0.00890	-13.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab Sample ID: ICV 240-149718/15 Calibration Date: 10/02/2014 13:49

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 11:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 13:04

Lab File ID: UXC4781.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
Acetonitrile	Qua		0.0402		0.135	0.100	34.6*	20.0
Diisopropyl ether	Ave	0.3762	0.3956		0.0105	0.0100	5.1	20.0
2-Chloro-1,3-butadiene	Ave	0.6168	0.6622		0.0107	0.0100	7.4	20.0
Ethyl tert-butyl ether	Ave	0.9808	1.019		0.0104	0.0100	3.9	20.0
Ethyl acetate	Ave	0.0448	0.0657		0.0293	0.0200	46.7*	20.0
Propionitrile	Ave	0.0375	0.0414		0.110	0.100	10.3	20.0
Methacrylonitrile	Ave	0.1299	0.1423		0.110	0.100	9.5	20.0
Tert-amyl methyl ether	Ave	0.7542	0.7888		0.0105	0.0100	4.6	20.0
n-Butanol	Ave	0.0036	0.0033		0.235	0.250	-6.1	20.0
Ethyl acrylate	Ave	0.1520	0.1718		0.0113	0.0100	13.0	20.0
Methyl methacrylate	Ave	0.1274	0.1466		0.0230	0.0200	15.0	20.0
2-Nitropropane	Ave	0.0211	0.0204		0.0193	0.0200	-3.4	20.0
1-Chlorohexane	Ave	0.5046	0.5018		0.00994	0.0100	-0.6	20.0
Cyclohexanone	Ave	0.0187	0.0141		0.0750	0.100	-25.0*	20.0
1,2,3-Trimethylbenzene	Ave	3.447	3.555		0.0103	0.0100	3.1	20.0
1,3,5-Trichlorobenzene	Ave	1.500	1.445		0.00963	0.0100	-3.7	20.0
2-Methylnaphthalene	Qua		1.313		0.0165	0.0200	-17.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab Sample ID: CCVIS 240-149984/2 Calibration Date: 10/03/2014 10:30

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:32

Lab File ID: UXC4830.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	0.6004	0.4843	0.1000	0.00807	0.0100	-19.3	20.0
Chloromethane	Ave	0.6469	0.5045	0.1000	0.00780	0.0100	-22.0*	20.0
Vinyl chloride	Ave	0.6165	0.5030	0.1000	0.00816	0.0100	-18.4	20.0
Bromomethane	Qua		0.2372	0.0500	0.00805	0.0100	-19.5	20.0
Chloroethane	Ave	0.3291	0.2766	0.0500	0.00840	0.0100	-16.0	20.0
Dichlorofluoromethane	Ave	0.7598	0.6354		0.00836	0.0100	-16.4	20.0
Trichlorofluoromethane	Ave	0.6867	0.5364	0.1000	0.00781	0.0100	-21.9*	20.0
Ethyl ether	Ave	0.2969	0.2694		0.00907	0.0100	-9.3	20.0
Acrolein	Qua		0.0161		0.0883	0.0500	76.7*	20.0
1,1-Dichloroethene	Ave	0.4554	0.4095	0.1000	0.00899	0.0100	-10.1	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.3890	0.3518	0.0500	0.00904	0.0100	-9.6	20.0
Acetone	Ave	0.0827	0.0949	0.0500	0.0230	0.0200	14.8	20.0
Iodomethane	Ave	0.7149	0.6346		0.00888	0.0100	-11.2	20.0
Carbon disulfide	Ave	1.401	1.225	0.1000	0.00874	0.0100	-12.6	20.0
3-Chloro-1-propene	Ave	0.2511	0.2284		0.00910	0.0100	-9.0	20.0
Methyl acetate	Ave	0.1946	0.1784	0.1000	0.0458	0.0500	-8.4	20.0
Methylene Chloride	Lin1		0.4877	0.1000	0.00932	0.0100	-6.8	20.0
tert-Butyl alcohol	Qua		0.0136		0.122	0.100	22.5*	20.0
Acrylonitrile	Ave	0.1065	0.1080		0.101	0.100	1.5	20.0
Methyl tert-butyl ether	Ave	0.8876	0.8379	0.1000	0.00944	0.0100	-5.6	20.0
trans-1,2-Dichloroethene	Ave	0.5006	0.4388	0.1000	0.00877	0.0100	-12.3	20.0
Hexane	Ave	0.0962	0.0883		0.00918	0.0100	-8.2	20.0
1,1-Dichloroethane	Ave	0.8068	0.7079	0.1000	0.00877	0.0100	-12.3	20.0
Vinyl acetate	Ave	0.2609	0.2492		0.00917	0.00960	-4.5	20.0
2,2-Dichloropropane	Ave	0.4233	0.3382		0.00799	0.0100	-20.1*	20.0
cis-1,2-Dichloroethene	Ave	0.5066	0.4466	0.1000	0.00881	0.0100	-11.9	20.0
2-Butanone (MEK)	Ave	0.0856	0.0850	0.0500	0.0199	0.0200	-0.7	20.0
Bromochloromethane	Ave	0.2161	0.1972		0.00913	0.0100	-8.7	20.0
Tetrahydrofuran	Ave	0.0513	0.0516		0.0201	0.0200	0.4	20.0
Chloroform	Ave	0.7649	0.6894	0.2000	0.00901	0.0100	-9.9	20.0
1,1,1-Trichloroethane	Ave	0.5918	0.5123	0.1000	0.00866	0.0100	-13.4	20.0
Cyclohexane	Ave	0.7915	0.6965	0.1000	0.00880	0.0100	-12.0	20.0
1,1-Dichloropropene	Ave	0.4889	0.4588		0.00938	0.0100	-6.2	20.0
Carbon tetrachloride	Ave	0.4847	0.4218	0.1000	0.00870	0.0100	-13.0	20.0
Isobutyl alcohol	Lin1		0.0055		0.292	0.250	16.7	20.0
Benzene	Ave	1.575	1.466	0.5000	0.00931	0.0100	-6.9	20.0
1,2-Dichloroethane	Ave	0.4196	0.4210	0.1000	0.0100	0.0100	0.3	20.0
n-Heptane	Ave	0.0758	0.0708		0.00933	0.0100	-6.7	20.0
Trichloroethene	Ave	0.3488	0.3431	0.2000	0.00984	0.0100	-1.6	20.0
Methylcyclohexane	Ave	0.7121	0.6356	0.1000	0.00893	0.0100	-10.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab Sample ID: CCVIS 240-149984/2 Calibration Date: 10/03/2014 10:30

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:32

Lab File ID: UXC4830.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-Dichloropropane	Ave	0.3215	0.3052	0.1000	0.00949	0.0100	-5.1	20.0
1,4-Dioxane	Lin1		0.0023		0.197	0.200	-1.3	20.0
Dibromomethane	Ave	0.1577	0.1640		0.0104	0.0100	4.0	20.0
Bromodichloromethane	Ave	0.3345	0.3335	0.1000	0.00997	0.0100	-0.3	20.0
2-Chloroethyl vinyl ether	Ave	0.0915	0.1011		0.0221	0.0200	10.4	20.0
cis-1,3-Dichloropropene	Qua		0.2889	0.1500	0.0106	0.0100	5.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1601	0.1591	0.0500	0.0199	0.0200	-0.6	20.0
Toluene	Ave	2.064	2.069	0.4000	0.0100	0.0100	0.2	20.0
trans-1,3-Dichloropropene	Lin1		0.3000	0.1000	0.00999	0.0100	-0.1	20.0
Ethyl methacrylate	Ave	0.2922	0.3153		0.0108	0.0100	7.9	20.0
1,1,2-Trichloroethane	Ave	0.3070	0.3204	0.1000	0.0104	0.0100	4.4	20.0
Tetrachloroethene	Ave	0.3998	0.4059	0.2000	0.0102	0.0100	1.5	20.0
1,3-Dichloropropane	Ave	0.5285	0.5551		0.0105	0.0100	5.0	20.0
2-Hexanone	Qua		0.1572	0.0500	0.0178	0.0200	-10.9	20.0
Chlorodibromomethane	Lin1		0.3024		0.0105	0.0100	5.1	20.0
1,2-Dibromoethane	Ave	0.2623	0.2825		0.0108	0.0100	7.7	20.0
Chlorobenzene	Ave	1.302	1.305	0.3000	0.0100	0.0100	0.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4384	0.4181		0.00954	0.0100	-4.6	20.0
Ethylbenzene	Ave	0.7596	0.7620		0.0100	0.0100	0.3	20.0
m-Xylene & p-Xylene	Ave	1.859	1.877		0.0101	0.0100	1.0	20.0
o-Xylene	Ave	0.9847	0.9832		0.00998	0.0100	-0.2	20.0
Styrene	Ave	1.307	1.359	0.3000	0.0104	0.0100	4.0	20.0
Bromoform	Ave	0.1462	0.1493	0.1000	0.0102	0.0100	2.1	20.0
Isopropylbenzene	Ave	2.571	2.545	0.1000	0.00990	0.0100	-1.0	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6806	0.7082	0.3000	0.0104	0.0100	4.1	20.0
Bromobenzene	Ave	0.8951	0.8646		0.00966	0.0100	-3.4	20.0
1,2,3-Trichloropropane	Ave	0.2186	0.2237		0.0102	0.0100	2.3	20.0
trans-1,4-Dichloro-2-butene	Qua		0.1115		0.0129	0.0100	29.2*	20.0
N-Propylbenzene	Ave	1.057	1.040		0.00984	0.0100	-1.6	20.0
2-Chlorotoluene	Ave	0.9512	0.9176		0.00965	0.0100	-3.5	20.0
1,3,5-Trimethylbenzene	Lin1		3.393		0.00910	0.0100	-9.0	20.0
4-Chlorotoluene	Ave	3.200	3.055		0.00955	0.0100	-4.5	20.0
tert-Butylbenzene	Lin1		2.544		0.00868	0.0100	-13.2	20.0
1,2,4-Trimethylbenzene	Ave	3.583	3.628		0.0101	0.0100	1.3	20.0
sec-Butylbenzene	Ave	3.957	3.881		0.00981	0.0100	-1.9	20.0
1,3-Dichlorobenzene	Ave	1.969	1.858	0.6000	0.00944	0.0100	-5.6	20.0
4-Isopropyltoluene	Ave	3.573	3.539		0.00991	0.0100	-0.9	20.0
1,4-Dichlorobenzene	Ave	1.997	1.858	0.5000	0.00930	0.0100	-7.0	20.0
n-Butylbenzene	Ave	3.110	2.924		0.00940	0.0100	-6.0	20.0
1,2-Dichlorobenzene	Ave	1.985	1.899	0.4000	0.00957	0.0100	-4.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1081	0.1059	0.0500	0.00980	0.0100	-2.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab Sample ID: CCVIS 240-149984/2 Calibration Date: 10/03/2014 10:30

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 08:39

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:32

Lab File ID: UXC4830.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
1,2,4-Trichlorobenzene	Ave	1.366	1.340	0.2000	0.00981	0.0100	-1.9	20.0
Hexachlorobutadiene	Ave	0.6032	0.5397		0.00895	0.0100	-10.5	20.0
Naphthalene	Lin1		2.793		0.00972	0.0100	-2.8	20.0
1,2,3-Trichlorobenzene	Ave	1.214	1.250		0.0103	0.0100	3.0	20.0
Dibromofluoromethane (Surr)	Ave	0.3702	0.2995		0.00720	0.00890	-19.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3609	0.3060		0.00755	0.00890	-15.2	20.0
Toluene-d8 (Surr)	Ave	1.777	1.593		0.00798	0.00890	-10.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.6539	0.5740		0.00781	0.00890	-12.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab Sample ID: CCV 240-149984/3 Calibration Date: 10/03/2014 11:15

Instrument ID: A3UX15 Calib Start Date: 10/02/2014 11:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 13:04

Lab File ID: UXC4832.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
Acetonitrile	Qua		0.0317		0.109	0.100	9.0	20.0
Diisopropyl ether	Ave	0.3762	0.3431		0.00912	0.0100	-8.8	20.0
2-Chloro-1,3-butadiene	Ave	0.6168	0.5759		0.00934	0.0100	-6.6	20.0
Ethyl tert-butyl ether	Ave	0.9808	0.8772		0.00894	0.0100	-10.6	20.0
Ethyl acetate	Ave	0.0448	0.0484		0.0216	0.0200	8.1	20.0
Propionitrile	Ave	0.0375	0.0359		0.0957	0.100	-4.3	20.0
Methacrylonitrile	Ave	0.1299	0.1330		0.102	0.100	2.4	20.0
Tert-amyl methyl ether	Ave	0.7542	0.6834		0.00906	0.0100	-9.4	20.0
n-Butanol	Ave	0.0036	0.0035		0.245	0.250	-2.1	20.0
Ethyl acrylate	Ave	0.1520	0.1462		0.00962	0.0100	-3.8	20.0
Methyl methacrylate	Ave	0.1274	0.1324		0.0208	0.0200	3.9	20.0
2-Nitropropane	Ave	0.0211	0.0182		0.0172	0.0200	-14.1	20.0
1-Chlorohexane	Ave	0.5046	0.4637		0.00919	0.0100	-8.1	20.0
Cyclohexanone	Ave	0.0187	0.0181		0.0964	0.100	-3.6	20.0
1,2,3-Trimethylbenzene	Ave	3.447	3.555		0.0103	0.0100	3.1	20.0
1,3,5-Trichlorobenzene	Ave	1.500	1.453		0.00969	0.0100	-3.1	20.0
2-Methylnaphthalene	Qua		1.218		0.0153	0.0200	-23.5*	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-149718/18

Matrix: Water | Lab File ID: UXC4784.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 14:57

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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-149718/18

Matrix: Water | Lab File ID: UXC4784.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 14:57

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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.469	J	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-149718/18

Matrix: Water Lab File ID: UXC4784.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 14:57

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.: 149718 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		74-120
1868-53-7	Dibromofluoromethane (Surr)	82		75-121
460-00-4	4-Bromofluorobenzene (Surr)	86		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-149984/32

Matrix: Water | Lab File ID: UXC4836.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/03/2014 12:46

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.: 149984 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-149984/32

Matrix: Water | Lab File ID: UXC4836.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/03/2014 12:46

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.: 149984 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-149984/32

Matrix: Water Lab File ID: UXC4836.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/03/2014 12:46

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.: 149984 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		74-120
1868-53-7	Dibromofluoromethane (Surr)	81		75-121
460-00-4	4-Bromofluorobenzene (Surr)	85		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-149718/16

Matrix: Water | Lab File ID: UXC4782.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 14:12

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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	10.1		1.0	0.28
71-55-6	1,1,1-Trichloroethane	9.31		1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	10.6		1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	9.55		1.0	0.37
75-34-3	1,1-Dichloroethane	10.3		1.0	0.26
75-35-4	1,1-Dichloroethene	9.59		1.0	0.45
563-58-6	1,1-Dichloropropene	11.1		1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	9.05		1.0	0.37
96-18-4	1,2,3-Trichloropropane	11.1		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	8.96		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	9.79		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	9.67		2.0	0.82
95-50-1	1,2-Dichlorobenzene	9.75		1.0	0.17
107-06-2	1,2-Dichloroethane	10.4		1.0	0.20
78-87-5	1,2-Dichloropropane	9.59		1.0	0.22
541-73-1	1,3-Dichlorobenzene	9.45		1.0	0.17
142-28-9	1,3-Dichloropropane	10.7		1.0	0.18
106-46-7	1,4-Dichlorobenzene	9.46		1.0	0.16
594-20-7	2,2-Dichloropropane	8.41		1.0	0.26
78-93-3	2-Butanone (MEK)	20.8		10	4.1
110-75-8	2-Chloroethyl vinyl ether	12.8		10	1.2
95-49-8	2-Chlorotoluene	9.84		1.0	0.20
591-78-6	2-Hexanone	21.9		10	3.9
106-43-4	4-Chlorotoluene	9.69		1.0	0.22
99-87-6	4-Isopropyltoluene	9.60		1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	22.2		10	3.6
67-64-1	Acetone	18.9		10	3.4
71-43-2	Benzene	9.91		1.0	0.24
108-86-1	Bromobenzene	9.56		1.0	0.12
75-25-2	Bromoform	10.5		1.0	0.56
74-83-9	Bromomethane	8.78		1.0	0.63
75-15-0	Carbon disulfide	9.94		1.0	0.28
56-23-5	Carbon tetrachloride	9.33		1.0	0.17
108-90-7	Chlorobenzene	10.3		1.0	0.19
124-48-1	Chlorodibromomethane	10.1		1.0	0.43
75-00-3	Chloroethane	9.07		1.0	0.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-149718/16

Matrix: Water | Lab File ID: UXC4782.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 14:12

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.: 149718 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	10.0		1.0	0.21
74-87-3	Chloromethane	8.69		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.95		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	9.99		1.0	0.46
74-95-3	Dibromomethane	10.1		1.0	0.17
74-97-5	Bromochloromethane	10.2		1.0	0.25
75-71-8	Dichlorodifluoromethane	7.32		1.0	0.50
75-27-4	Bromodichloromethane	9.59		1.0	0.15
75-65-0	tert-Butyl alcohol	70.6		50	8.7
100-41-4	Ethylbenzene	10.5		1.0	0.23
87-68-3	Hexachlorobutadiene	8.25		1.0	0.35
98-82-8	Isopropylbenzene	10.8		1.0	0.35
1634-04-4	Methyl tert-butyl ether	10.4		1.0	0.16
75-09-2	Methylene Chloride	10.5		1.0	0.28
179601-23-1	m-Xylene & p-Xylene	10.6		2.0	0.22
91-20-3	Naphthalene	9.29		1.0	0.45
104-51-8	n-Butylbenzene	9.35		1.0	0.22
103-65-1	N-Propylbenzene	9.99		1.0	0.40
95-47-6	o-Xylene	10.7		1.0	0.21
135-98-8	sec-Butylbenzene	9.71		1.0	0.48
100-42-5	Styrene	11.2		1.0	0.45
127-18-4	Tetrachloroethene	10.2		1.0	0.20
108-88-3	Toluene	10.4		1.0	0.22
156-60-5	trans-1,2-Dichloroethene	10.1		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	10.6		1.0	0.56
79-01-6	Trichloroethene	10.1		1.0	0.15
75-69-4	Trichlorofluoromethane	8.82		1.0	0.49
108-05-4	Vinyl acetate	7.60		2.0	0.41
75-01-4	Vinyl chloride	8.89		1.0	0.29
1330-20-7	Xylenes, Total	21.3		2.0	0.43
98-06-6	tert-Butylbenzene	8.31		1.0	0.41
106-93-4	1,2-Dibromoethane	11.5		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-149718/16

Matrix: Water Lab File ID: UXC4782.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 14:12

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.: 149718 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		74-120
1868-53-7	Dibromofluoromethane (Surr)	85		75-121
460-00-4	4-Bromofluorobenzene (Surr)	95		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-149984/4

Matrix: Water | Lab File ID: UXC4831.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/03/2014 10:53

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.: 149984 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	10.3		1.0	0.28
71-55-6	1,1,1-Trichloroethane	9.10		1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	10.6		1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	9.13		1.0	0.37
75-34-3	1,1-Dichloroethane	9.76		1.0	0.26
75-35-4	1,1-Dichloroethene	9.56		1.0	0.45
563-58-6	1,1-Dichloropropene	11.2		1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	10.0		1.0	0.37
96-18-4	1,2,3-Trichloropropane	11.0		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	9.77		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	10.3		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	9.93		2.0	0.82
95-50-1	1,2-Dichlorobenzene	10.0		1.0	0.17
107-06-2	1,2-Dichloroethane	10.8		1.0	0.20
78-87-5	1,2-Dichloropropane	9.68		1.0	0.22
541-73-1	1,3-Dichlorobenzene	9.74		1.0	0.17
142-28-9	1,3-Dichloropropane	10.7		1.0	0.18
106-46-7	1,4-Dichlorobenzene	9.69		1.0	0.16
594-20-7	2,2-Dichloropropane	8.12		1.0	0.26
78-93-3	2-Butanone (MEK)	19.6		10	4.1
110-75-8	2-Chloroethyl vinyl ether	12.8		10	1.2
95-49-8	2-Chlorotoluene	10.2		1.0	0.20
591-78-6	2-Hexanone	18.6		10	3.9
106-43-4	4-Chlorotoluene	9.96		1.0	0.22
99-87-6	4-Isopropyltoluene	10.1		1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	20.1		10	3.6
67-64-1	Acetone	20.0		10	3.4
71-43-2	Benzene	10.0		1.0	0.24
108-86-1	Bromobenzene	10.2		1.0	0.12
75-25-2	Bromoform	10.2		1.0	0.56
74-83-9	Bromomethane	7.20		1.0	0.63
75-15-0	Carbon disulfide	9.76		1.0	0.28
56-23-5	Carbon tetrachloride	9.40		1.0	0.17
108-90-7	Chlorobenzene	10.3		1.0	0.19
124-48-1	Chlorodibromomethane	10.2		1.0	0.43
75-00-3	Chloroethane	7.86		1.0	0.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-149984/4

Matrix: Water Lab File ID: UXC4831.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/03/2014 10:53

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.: 149984 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	9.87		1.0	0.21
74-87-3	Chloromethane	7.26		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.79		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	10.0		1.0	0.46
74-95-3	Dibromomethane	10.7		1.0	0.17
74-97-5	Bromochloromethane	10.0		1.0	0.25
75-71-8	Dichlorodifluoromethane	6.14		1.0	0.50
75-27-4	Bromodichloromethane	10.1		1.0	0.15
75-65-0	tert-Butyl alcohol	96.6		50	8.7
100-41-4	Ethylbenzene	10.4		1.0	0.23
87-68-3	Hexachlorobutadiene	8.95		1.0	0.35
98-82-8	Isopropylbenzene	10.6		1.0	0.35
1634-04-4	Methyl tert-butyl ether	9.85		1.0	0.16
75-09-2	Methylene Chloride	10.2		1.0	0.28
179601-23-1	m-Xylene & p-Xylene	10.5		2.0	0.22
91-20-3	Naphthalene	9.80		1.0	0.45
104-51-8	n-Butylbenzene	9.77		1.0	0.22
103-65-1	N-Propylbenzene	10.4		1.0	0.40
95-47-6	o-Xylene	10.6		1.0	0.21
135-98-8	sec-Butylbenzene	10.2		1.0	0.48
100-42-5	Styrene	11.0		1.0	0.45
127-18-4	Tetrachloroethene	10.4		1.0	0.20
108-88-3	Toluene	10.5		1.0	0.22
156-60-5	trans-1,2-Dichloroethene	9.77		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	10.4		1.0	0.56
79-01-6	Trichloroethene	10.5		1.0	0.15
75-69-4	Trichlorofluoromethane	7.45		1.0	0.49
108-05-4	Vinyl acetate	7.68		2.0	0.41
75-01-4	Vinyl chloride	7.57		1.0	0.29
1330-20-7	Xylenes, Total	21.1		2.0	0.43
98-06-6	tert-Butylbenzene	8.97		1.0	0.41
106-93-4	1,2-Dibromoethane	11.2		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-149984/4

Matrix: Water Lab File ID: UXC4831.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/03/2014 10:53

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.: 149984 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		74-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-121
460-00-4	4-Bromofluorobenzene (Surr)	87		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-1-092614 MS | Lab Sample ID: 240-42438-1 MS

Matrix: Water | Lab File ID: UXC4857.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/03/2014 20:39

Soil Aliquot Vol: | Dilution Factor: 5000

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

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

Analysis Batch No.: 149984 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	51400		5000	1400
71-55-6	1,1,1-Trichloroethane	48400		5000	1100
79-34-5	1,1,2,2-Tetrachloroethane	50300		5000	1100
76-13-1	1,1,2-Trichlorotrifluoroethane	47600		5000	1900
75-34-3	1,1-Dichloroethane	53200		5000	1300
75-35-4	1,1-Dichloroethene	51500		5000	2300
563-58-6	1,1-Dichloropropene	54800		5000	1100
87-61-6	1,2,3-Trichlorobenzene	45200		5000	1900
96-18-4	1,2,3-Trichloropropane	52600		5000	1500
526-73-8	1,2,3-Trimethylbenzene	2400	U	25000	2400
120-82-1	1,2,4-Trichlorobenzene	43900		5000	1600
95-63-6	1,2,4-Trimethylbenzene	48700		5000	2100
96-12-8	1,2-Dibromo-3-Chloropropane	44300		10000	4100
95-50-1	1,2-Dichlorobenzene	48800		5000	850
107-06-2	1,2-Dichloroethane	52100		5000	1000
78-87-5	1,2-Dichloropropane	49800		5000	1100
541-73-1	1,3-Dichlorobenzene	46200		5000	850
142-28-9	1,3-Dichloropropane	52900		5000	900
106-46-7	1,4-Dichlorobenzene	46500		5000	800
594-20-7	2,2-Dichloropropane	40400		5000	1300
78-93-3	2-Butanone (MEK)	92900		50000	20000
110-75-8	2-Chloroethyl vinyl ether	54700		50000	5800
95-49-8	2-Chlorotoluene	49700		5000	1000
591-78-6	2-Hexanone	79000		50000	19000
106-43-4	4-Chlorotoluene	48500		5000	1100
99-87-6	4-Isopropyltoluene	46800		5000	2200
108-10-1	4-Methyl-2-pentanone (MIBK)	99200		50000	18000
67-64-1	Acetone	75000		50000	17000
71-43-2	Benzene	50500		5000	1200
108-86-1	Bromobenzene	48600		5000	600
75-25-2	Bromoform	51400		5000	2800
74-83-9	Bromomethane	40000		5000	3200
75-15-0	Carbon disulfide	53600		5000	1400
56-23-5	Carbon tetrachloride	48700		5000	850
108-90-7	Chlorobenzene	51900		5000	950
124-48-1	Chlorodibromomethane	50000		5000	2200

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-1-092614 MS | Lab Sample ID: 240-42438-1 MS

Matrix: Water | Lab File ID: UXC4857.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/03/2014 20:39

Soil Aliquot Vol: | Dilution Factor: 5000

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

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

Analysis Batch No.: 149984 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	45500		5000	1700
67-66-3	Chloroform	53500		5000	1100
74-87-3	Chloromethane	40100		5000	2200
156-59-2	cis-1,2-Dichloroethene	53100		5000	1000
10061-01-5	cis-1,3-Dichloropropene	46200		5000	2300
74-95-3	Dibromomethane	52200		5000	850
74-97-5	Bromochloromethane	52800		5000	1300
75-71-8	Dichlorodifluoromethane	32100		5000	2500
75-27-4	Bromodichloromethane	48300		5000	750
75-65-0	tert-Butyl alcohol	365000		250000	43000
100-41-4	Ethylbenzene	52500		5000	1200
87-68-3	Hexachlorobutadiene	39900		5000	1800
108-20-3	Diisopropyl ether	950	U	50000	950
98-82-8	Isopropylbenzene	53700		5000	1800
1634-04-4	Methyl tert-butyl ether	51500		5000	800
75-09-2	Methylene Chloride	56700		5000	1400
179601-23-1	m-Xylene & p-Xylene	53300		10000	1100
91-20-3	Naphthalene	43000		5000	2300
104-51-8	n-Butylbenzene	44300		5000	1100
103-65-1	N-Propylbenzene	49700		5000	2000
95-47-6	o-Xylene	54800		5000	1100
135-98-8	sec-Butylbenzene	46800		5000	2400
100-42-5	Styrene	56700		5000	2300
994-05-8	Tert-amyl methyl ether	800	U	25000	800
637-92-3	Ethyl tert-butyl ether	1000	U	25000	1000
127-18-4	Tetrachloroethene	52700		5000	1000
108-88-3	Toluene	53000		5000	1100
156-60-5	trans-1,2-Dichloroethene	53100		5000	1300
10061-02-6	trans-1,3-Dichloropropene	48100		5000	2800
79-01-6	Trichloroethene	157000		5000	750
75-69-4	Trichlorofluoromethane	42900		5000	2500
108-05-4	Vinyl acetate	26700		10000	2100
75-01-4	Vinyl chloride	42300		5000	1500
1330-20-7	Xylenes, Total	108000		10000	2200
98-06-6	tert-Butylbenzene	40500		5000	2100
106-93-4	1,2-Dibromoethane	55400		5000	950

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-1-092614 MS Lab Sample ID: 240-42438-1 MS

Matrix: Water Lab File ID: UXC4857.D

Analysis Method: 8260C Date Collected: 09/26/2014 15:00

Sample wt/vol: 5(mL) Date Analyzed: 10/03/2014 20:39

Soil Aliquot Vol: Dilution Factor: 5000

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 149984 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	91		74-120
1868-53-7	Dibromofluoromethane (Surr)	89		75-121
460-00-4	4-Bromofluorobenzene (Surr)	92		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-1-092614 MSD | Lab Sample ID: 240-42438-1 MSD

Matrix: Water | Lab File ID: UXC4858.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/03/2014 21:01

Soil Aliquot Vol: | Dilution Factor: 5000

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

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

Analysis Batch No.: 149984 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	48700		5000	1400
71-55-6	1,1,1-Trichloroethane	46200		5000	1100
79-34-5	1,1,2,2-Tetrachloroethane	48900		5000	1100
76-13-1	1,1,2-Trichlorotrifluoroethane	44300		5000	1900
75-34-3	1,1-Dichloroethane	51000		5000	1300
75-35-4	1,1-Dichloroethene	48400		5000	2300
563-58-6	1,1-Dichloropropene	50000		5000	1100
87-61-6	1,2,3-Trichlorobenzene	49500		5000	1900
96-18-4	1,2,3-Trichloropropane	50200		5000	1500
526-73-8	1,2,3-Trimethylbenzene	2400	U	25000	2400
120-82-1	1,2,4-Trichlorobenzene	45900		5000	1600
95-63-6	1,2,4-Trimethylbenzene	46600		5000	2100
96-12-8	1,2-Dibromo-3-Chloropropane	46100		10000	4100
95-50-1	1,2-Dichlorobenzene	46300		5000	850
107-06-2	1,2-Dichloroethane	49600		5000	1000
78-87-5	1,2-Dichloropropane	47300		5000	1100
541-73-1	1,3-Dichlorobenzene	43600		5000	850
142-28-9	1,3-Dichloropropane	51600		5000	900
106-46-7	1,4-Dichlorobenzene	44800		5000	800
594-20-7	2,2-Dichloropropane	39200		5000	1300
78-93-3	2-Butanone (MEK)	96000		50000	20000
110-75-8	2-Chloroethyl vinyl ether	58700		50000	5800
95-49-8	2-Chlorotoluene	46700		5000	1000
591-78-6	2-Hexanone	78900		50000	19000
106-43-4	4-Chlorotoluene	45100		5000	1100
99-87-6	4-Isopropyltoluene	44400		5000	2200
108-10-1	4-Methyl-2-pentanone (MIBK)	98300		50000	18000
67-64-1	Acetone	84500		50000	17000
71-43-2	Benzene	48100		5000	1200
108-86-1	Bromobenzene	46300		5000	600
75-25-2	Bromoform	49600		5000	2800
74-83-9	Bromomethane	35900		5000	3200
75-15-0	Carbon disulfide	49900		5000	1400
56-23-5	Carbon tetrachloride	45700		5000	850
108-90-7	Chlorobenzene	47900		5000	950
124-48-1	Chlorodibromomethane	48100		5000	2200

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-1-092614 MSD | Lab Sample ID: 240-42438-1 MSD

Matrix: Water | Lab File ID: UXC4858.D

Analysis Method: 8260C | Date Collected: 09/26/2014 15:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/03/2014 21:01

Soil Aliquot Vol: | Dilution Factor: 5000

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

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

Analysis Batch No.: 149984 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	41600		5000	1700
67-66-3	Chloroform	50100		5000	1100
74-87-3	Chloromethane	37800		5000	2200
156-59-2	cis-1,2-Dichloroethene	50100		5000	1000
10061-01-5	cis-1,3-Dichloropropene	46500		5000	2300
74-95-3	Dibromomethane	50400		5000	850
74-97-5	Bromochloromethane	50100		5000	1300
75-71-8	Dichlorodifluoromethane	30000		5000	2500
75-27-4	Bromodichloromethane	47900		5000	750
75-65-0	tert-Butyl alcohol	458000		250000	43000
100-41-4	Ethylbenzene	48600		5000	1200
87-68-3	Hexachlorobutadiene	40600		5000	1800
108-20-3	Diisopropyl ether	950	U	50000	950
98-82-8	Isopropylbenzene	48500		5000	1800
1634-04-4	Methyl tert-butyl ether	50400		5000	800
75-09-2	Methylene Chloride	52700		5000	1400
179601-23-1	m-Xylene & p-Xylene	49400		10000	1100
91-20-3	Naphthalene	47300		5000	2300
104-51-8	n-Butylbenzene	42400		5000	1100
103-65-1	N-Propylbenzene	45700		5000	2000
95-47-6	o-Xylene	49800		5000	1100
135-98-8	sec-Butylbenzene	43700		5000	2400
100-42-5	Styrene	53200		5000	2300
994-05-8	Tert-amyl methyl ether	800	U	25000	800
637-92-3	Ethyl tert-butyl ether	1000	U	25000	1000
127-18-4	Tetrachloroethene	48900		5000	1000
108-88-3	Toluene	49500		5000	1100
156-60-5	trans-1,2-Dichloroethene	50400		5000	1300
10061-02-6	trans-1,3-Dichloropropene	47600		5000	2800
79-01-6	Trichloroethene	147000		5000	750
75-69-4	Trichlorofluoromethane	40500		5000	2500
108-05-4	Vinyl acetate	30200		10000	2100
75-01-4	Vinyl chloride	39700		5000	1500
1330-20-7	Xylenes, Total	99200		10000	2200
98-06-6	tert-Butylbenzene	38200		5000	2100
106-93-4	1,2-Dibromoethane	53000		5000	950

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Client Sample ID: WSP-1-092614 MSD Lab Sample ID: 240-42438-1 MSD

Matrix: Water Lab File ID: UXC4858.D

Analysis Method: 8260C Date Collected: 09/26/2014 15:00

Sample wt/vol: 5(mL) Date Analyzed: 10/03/2014 21:01

Soil Aliquot Vol: Dilution Factor: 5000

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 149984 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		74-120
1868-53-7	Dibromofluoromethane (Surr)	86		75-121
460-00-4	4-Bromofluorobenzene (Surr)	90		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		63-129

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Instrument ID: A3UX15 Start Date: 10/02/2014 07:59

Analysis Batch Number: 149718 End Date: 10/02/2014 19:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-149718/1		10/02/2014 07:59	1	BFB497.D	DB-624 0.18(mm)
STD8260 240-149718/2 IC		10/02/2014 08:39	1	UXC4768.D	DB-624 0.18(mm)
STD8260 240-149718/3 IC		10/02/2014 09:02	1	UXC4769.D	DB-624 0.18(mm)
STD8260 240-149718/4 ICIS		10/02/2014 09:24	1	UXC4770.D	DB-624 0.18(mm)
STD8260 240-149718/5 IC		10/02/2014 09:46	1	UXC4771.D	DB-624 0.18(mm)
STD8260 240-149718/6 IC		10/02/2014 10:09	1	UXC4772.D	DB-624 0.18(mm)
STD8260 240-149718/7 IC		10/02/2014 10:32	1	UXC4773.D	DB-624 0.18(mm)
STD 240-149718/8 IC		10/02/2014 11:11	1	UXC4774.D	DB-624 0.18(mm)
STD 240-149718/9 IC		10/02/2014 11:34	1	UXC4775.D	DB-624 0.18(mm)
STD 240-149718/10 IC		10/02/2014 11:56	1	UXC4776.D	DB-624 0.18(mm)
STD 240-149718/11 IC		10/02/2014 12:19	1	UXC4777.D	DB-624 0.18(mm)
STD 240-149718/12 IC		10/02/2014 12:41	1	UXC4778.D	DB-624 0.18(mm)
STD 240-149718/13 IC		10/02/2014 13:04	1	UXC4779.D	DB-624 0.18(mm)
ICV 240-149718/14		10/02/2014 13:26	1	UXC4780.D	DB-624 0.18(mm)
ICV 240-149718/15		10/02/2014 13:49	1	UXC4781.D	DB-624 0.18(mm)
LCS 240-149718/16		10/02/2014 14:12	1	UXC4782.D	DB-624 0.18(mm)
MB 240-149718/18		10/02/2014 14:57	1	UXC4784.D	DB-624 0.18(mm)
ZZZZZ		10/02/2014 15:19	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 15:42	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 16:05	5		DB-624 0.18(mm)
ZZZZZ		10/02/2014 16:28	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 17:13	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 17:36	1		DB-624 0.18(mm)
240-42438-2	WSP-2-092614	10/02/2014 18:20	1	UXC4793.D	DB-624 0.18(mm)
240-42438-3	WSP-3-092614	10/02/2014 18:42	1	UXC4794.D	DB-624 0.18(mm)
240-42438-4	WSP-4-092614	10/02/2014 19:05	1	UXC4795.D	DB-624 0.18(mm)
240-42438-5	TB-092614	10/02/2014 19:27	1	UXC4796.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Instrument ID: A3UX15 Start Date: 10/03/2014 10:02

Analysis Batch Number: 149984 End Date: 10/03/2014 21:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-149984/1		10/03/2014 10:02	1	BFB498.D	DB-624 0.18(mm)
CCVIS 240-149984/2		10/03/2014 10:30	1	UXC4830.D	DB-624 0.18(mm)
LCS 240-149984/4		10/03/2014 10:53	1	UXC4831.D	DB-624 0.18(mm)
CCV 240-149984/3		10/03/2014 11:15	1	UXC4832.D	DB-624 0.18(mm)
ZZZZZ		10/03/2014 11:38	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 12:01	1		DB-624 0.18(mm)
MB 240-149984/32		10/03/2014 12:46	1	UXC4836.D	DB-624 0.18(mm)
ZZZZZ		10/03/2014 13:09	1		DB-624 0.18(mm)
240-42438-1	WSP-1-092614	10/03/2014 13:31	5000	UXC4838.D	DB-624 0.18(mm)
ZZZZZ		10/03/2014 13:54	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 14:17	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 14:40	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 15:48	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 16:10	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 16:33	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 16:56	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 17:19	25		DB-624 0.18(mm)
ZZZZZ		10/03/2014 17:41	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 18:04	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 18:26	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 18:48	20		DB-624 0.18(mm)
ZZZZZ		10/03/2014 19:10	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 19:55	1		DB-624 0.18(mm)
ZZZZZ		10/03/2014 20:17	1		DB-624 0.18(mm)
240-42438-1 MS	WSP-1-092614 MS	10/03/2014 20:39	5000	UXC4857.D	DB-624 0.18(mm)
240-42438-1 MSD	WSP-1-092614 MSD	10/03/2014 21:01	5000	UXC4858.D	DB-624 0.18(mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-42438-1

SDG No.:

Project: LM MRC Block E

Client Sample ID	Lab Sample ID
WSP-1-092614	240-42438-1
WSP-2-092614	240-42438-2
WSP-4-092614	240-42438-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WSP-1-092614 Lab Sample ID: 240-42438-1

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG ID.:

Matrix: Water Date Sampled: 09/26/2014 15:00

Reporting Basis: WET Date Received: 09/27/2014 09:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.090	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: WSP-1-092614 Lab Sample ID: 240-42438-1

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG ID.:

Matrix: Water Date Sampled: 09/26/2014 15:00

Reporting Basis: WET Date Received: 09/27/2014 09:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	0.14	5.0	0.14	ug/L	U		1	6010C
7440-02-0	Nickel	60	40	0.76	ug/L			1	6010C
7440-22-4	Silver	0.92	10	0.92	ug/L	U		1	6010C
7440-50-8	Copper	6.7	25	1.9	ug/L	J		1	6010C
7439-92-1	Lead	2.8	10	1.9	ug/L	J	B	1	6010C
7440-66-6	Zinc	120	50	9.6	ug/L			1	6010C
7440-47-3	Chromium	0.80	10	0.55	ug/L	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WSP-2-092614 Lab Sample ID: 240-42438-2

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG ID.:

Matrix: Water Date Sampled: 09/26/2014 15:05

Reporting Basis: WET Date Received: 09/27/2014 09:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.090	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: WSP-2-092614 Lab Sample ID: 240-42438-2

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG ID.:

Matrix: Water Date Sampled: 09/26/2014 15:05

Reporting Basis: WET Date Received: 09/27/2014 09:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	0.15	5.0	0.14	ug/L	J		1	6010C
7440-02-0	Nickel	55	40	0.76	ug/L			1	6010C
7440-22-4	Silver	0.92	10	0.92	ug/L	U		1	6010C
7440-50-8	Copper	6.1	25	1.9	ug/L	J		1	6010C
7439-92-1	Lead	3.8	10	1.9	ug/L	J	B	1	6010C
7440-66-6	Zinc	210	50	9.6	ug/L			1	6010C
7440-47-3	Chromium	0.89	10	0.55	ug/L	J		1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WSP-4-092614 Lab Sample ID: 240-42438-4

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG ID.:

Matrix: Water Date Sampled: 09/26/2014 15:15

Reporting Basis: WET Date Received: 09/27/2014 09:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.090	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: WSP-4-092614 Lab Sample ID: 240-42438-4

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG ID.:

Matrix: Water Date Sampled: 09/26/2014 15:15

Reporting Basis: WET Date Received: 09/27/2014 09:50

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-43-9	Cadmium	0.14	5.0	0.14	ug/L	U		1	6010C
7440-02-0	Nickel	0.84	40	0.76	ug/L	J		1	6010C
7440-22-4	Silver	0.92	10	0.92	ug/L	U		1	6010C
7440-50-8	Copper	3.3	25	1.9	ug/L	J		1	6010C
7439-92-1	Lead	6.8	10	1.9	ug/L	J	B	1	6010C
7440-66-6	Zinc	4200	50	9.6	ug/L			1	6010C
7440-47-3	Chromium	0.55	10	0.55	ug/L	U		1	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

ICV Source: MT6500ICV_00021 Concentration Units: ug/L

CCV Source: MTICPCCV_00030

Analyte	ICV 240-149707/4 10/01/2014 11:51				CCV 240-149707/30 10/01/2014 13:42				CCV 240-149707/42 10/01/2014 14:31			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	384		375	102	504		500	101	497		500	99
Chromium	1490		1500	99	1960		2000	98	1940		2000	97
Copper	1500		1500	100	2020		2000	101	2000		2000	100
Lead	378		375	101	479		500	96	474		500	95
Nickel	1520		1500	101	1980		2000	99	1960		2000	98
Silver	760		750	101	1020		1000	102	1010		1000	101
Zinc	1580		1500	105	1990		2000	100	1970		2000	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 Canton Job No.: 240-42438-1

SDG No.:

ICV Source: MTHgStd_00011 Concentration Units: ug/L

CCV Source: MTHGCALW_00734

Analyte	ICV 240-149811/7-A 10/01/2014 18:11				CCVL 240-149811/10-A 10/01/2014 18:17				CCV 240-149811/11-A 10/01/2014 20:03			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.54		2.50	102	5.10		5.00	102	5.01		5.00	100

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

ICV Source: MTHgStd_00011 Concentration Units: ug/L

CCV Source: MTHGCALW_00734

Analyte	CCV 240-149811/11-A 10/01/2014 20:29				CCV 240-149811/11-A 10/01/2014 20:53							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.85		5.00	97	4.98		5.00	100				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Method: 6010C Instrument ID: I9

Lab Sample ID: CRI 240-149707/25 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00022

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cadmium	5.00	5.18		104	70-130
Nickel	40.0	40.0		100	70-130
Silver	10.0	10.2		102	70-130
Copper	20.0	19.8	J	99	70-130
Lead	10.0	11.9		119	70-130
Zinc	50.0	49.3	J	99	70-130
Chromium	10.0	11.3		113	70-130

Lab Sample ID: CRI 240-149707/38 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00022

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Cadmium	5.00	5.16		103	70-130
Nickel	40.0	40.2		101	70-130
Silver	10.0	10.5		105	70-130
Copper	20.0	20.4	J	102	70-130
Lead	10.0	11.1		111	70-130
Zinc	50.0	50.0		100	70-130
Chromium	10.0	11.5		115	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Method: 7470A Instrument ID: H1

Lab Sample ID: CRA 240-149811/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00734

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.251		125	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-149707/5 10/01/2014 11:55		CCB 240-149707/31 10/01/2014 13:46		CCB 240-149707/43 10/01/2014 14:35			
		Found	C	Found	C	Found	C	Found	C
Cadmium	5.0	0.14	U	0.14	U	0.14	U		
Chromium	10	0.55	U	0.590	J	0.55	U		
Copper	25	1.9	U	1.9	U	1.9	U		
Lead	10	1.9	U	1.9	U	1.9	U		
Nickel	40	0.76	U	0.76	U	0.76	U		
Silver	10	0.92	U	0.92	U	0.92	U		
Zinc	50	9.6	U	9.6	U	9.6	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-149811/8-A 10/01/2014 18:13		CCB 240-149811/12-A 10/01/2014 20:05		CCB 240-149811/12-A 10/01/2014 20:31		CCB 240-149811/12-A 10/01/2014 20:55	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.090	U	0.369		0.090	U	0.090	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-149343/1-A

Instrument Code: I9 Batch No.: 149707

CAS No.	Analyte	Concentration	C	Q	Method
7440-43-9	Cadmium	0.14	U		6010C
7440-02-0	Nickel	0.76	U		6010C
7440-22-4	Silver	0.92	U		6010C
7440-50-8	Copper	1.9	U		6010C
7439-92-1	Lead	2.74	J		6010C
7440-66-6	Zinc	9.6	U		6010C
7440-47-3	Chromium	0.55	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-149344/1-A

Instrument Code: H1 Batch No.: 149790

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.090	U		7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Lab Sample ID: ICSA 240-149707/8 Instrument ID: I9

Lab File ID: I9100114B.asc ICS Source: MTTRICSAW_00024

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Cadmium		**0.235**	
Chromium		**3.54**	
Copper		**0.717**	
Lead		**4.28**	
Nickel		**4.65**	
Silver		**0.289**	
Zinc		**3.32**	
Aluminum	*500000*	*507890*	*102*
Antimony		*0.154*	
Arsenic		*-2.64*	
Barium		*0.153*	
Beryllium		*-0.382*	
Boron		*-3.76*	
Calcium	*500000*	*482690*	*97*
Cobalt		*-1.34*	
Iron	*200000*	*190990*	*95*
Lithium		*2.12*	
Magnesium	*500000*	*509490*	*102*
Manganese		*0.614*	
Molybdenum		*-2.55*	
Potassium		*-39.8*	
Selenium		*-0.868*	
Silicon		*7.03*	
Sodium		*72.1*	
Strontium		*5.54*	
Thallium		*1.92*	
Tin		*0.820*	
Titanium		*-0.383*	
Vanadium		*2.48*	

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 Canton Job No.: 240-42438-1

SDG No.:

Lab Sample ID: ICSAB 240-149707/9 Instrument ID: I9

Lab File ID: I9100114B.asc ICS Source: MTICPICSABW_00005

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Cadmium	**1000**	**1014**	**101**
Chromium	**500**	**483**	**97**
Copper	**500**	**524**	**105**
Lead	**1000**	**891**	**89**
Nickel	**1000**	**988**	**99**
Silver	**1000**	**1085**	**109**
Zinc	**1000**	**1017**	**102**
Aluminum	*500000*	*504180*	*101*
Antimony	*1000*	*1020*	*102*
Arsenic	*1000*	*987*	*99*
Barium	*500*	*494*	*99*
Beryllium	*500*	*487*	*97*
Boron	*500*	*505*	*101*
Calcium	*500000*	*480130*	*96*
Cobalt	*500*	*493*	*99*
Iron	*200000*	*189310*	*95*
Lithium	*500*	*524*	*105*
Magnesium	*500000*	*502530*	*101*
Manganese	*500*	*487*	*97*
Molybdenum	*1000*	*945*	*95*
Potassium	*10000*	*10408*	*104*
Selenium	*1000*	*1001*	*100*
Silicon	*10000*	*9901*	*99*
Sodium	*10000*	*10471*	*105*
Strontium	*1500*	*1463*	*98*
Thallium	*1000*	*951*	*95*
Tin	*500*	*517*	*103*
Titanium	*500*	*507*	*101*
Vanadium	*500*	*486*	*97*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: Lab ID: 240-42451-D-1-E MS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.966		0.090	U	1.00	97	69-134		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: _____ Lab ID: 240-42451-D-1-F MSD

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.934		1.00	93	69-134	3	20		7470A

SDR = Sample Duplicate Result

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

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-149343/2-A

Lab Name: TestAmerica Canton Job No.: 240-42438-1

Sample Matrix: Water LCS Source: MTICP1_00033

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Cadmium	50.0	53.5		107	80	120		6010C
Nickel	500	515		103	80	120		6010C
Silver	50.0	53.8		108	80	120		6010C
Copper	250	260		104	80	120		6010C
Lead	500	503		101	80	120		6010C
Zinc	500	517		103	80	120		6010C
Chromium	200	204		102	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-149344/2-A

Lab Name: TestAmerica Canton Job No.: 240-42438-1

Sample Matrix: Water LCS Source: MTHGCALW_00733

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.69		94	81	123		7470A

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

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-42438-1

SDG Number:

Matrix: Water Instrument ID: I9

Method: 6010C MDL Date: 09/09/2014 14:52

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Cadmium	226.502	5	0.14
Chromium	267.716	10	0.55
Copper	324.753	25	1.9
Lead	220.353	10	1.9
Nickel	231.604	40	0.76
Silver	328.068	10	0.92
Zinc	213.856	50	9.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-42438-1

SDG Number:

Matrix: Water Instrument ID: I9

Method: 6010C XMDL Date: 09/09/2014 14:52

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Cadmium	226.502	5	0.14
Chromium	267.716	10	0.55
Copper	324.753	25	1.9
Lead	220.353	10	1.9
Nickel	231.604	40	0.76
Silver	328.068	10	0.92
Zinc	213.856	50	9.6

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42438-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A MDL Date: 09/17/2014 14:07

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury	253.7	0.2	0.09

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42438-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A XMDL Date: 09/17/2014 14:07

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.09

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42438-1

SDG No.:

ICP-AES Instrument ID: I9 Date: 09/24/2014

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	Tl	V
Aluminum										0.010824					0.030943
Antimony		-0.000095			-0.000220			-0.000037							0.002984
Arsenic		0.000023			-0.001064	0.000536			-0.000355	0.001157					
Barium															
Beryllium															0.000470
Boron															
Cadmium			0.007748					-0.000000							
Calcium															
Chromium															
Cobalt													0.001852		
Copper				0.000023	0.000140			0.000007							
Iron															
Lead		-0.000126					0.000068	0.000042			0.000321	0.000060			
Lithium				0.000010											
Magnesium															
Manganese															
Molybdenum															
Nickel					0.000518			0.000071							
Potassium															
Selenium									0.000338						
Silver															
Sodium															
Strontium															
Thallium					0.005293				0.001238				-0.000905		-0.002568
Tin															
Titanium															
Vanadium								0.000026							
Zinc						-0.000592									

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-42438-1

SDG No.:

Instrument ID: I9 Date: 09/24/2014 13:00

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Cadmium		2000	6010C
Nickel		30000	6010C
Silver		2000	6010C
Copper		30000	6010C
Lead		15000	6010C
Zinc		10000	6010C
Chromium		20000	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-42438-1

SDG No.:

Instrument ID: H1 Date: 12/10/2013 15:54

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7470A

FORM XI - IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-149343/1-A	09/30/2014 09:31	149343		50	50
LCS 240-149343/2-A	09/30/2014 09:31	149343		50	50
240-42438-1	09/30/2014 09:31	149343		50	50
240-42438-2	09/30/2014 09:31	149343		50	50
240-42438-4	09/30/2014 09:31	149343		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-149344/1-A	09/30/2014 12:00	149344		50	50
LCS 240-149344/2-A	09/30/2014 12:00	149344		50	50
240-42451-D-1-E MS	09/30/2014 12:00	149344		50	50
240-42451-D-1-F MSD	09/30/2014 12:00	149344		50	50
240-42438-1	09/30/2014 12:00	149344		50	50
240-42438-2	09/30/2014 12:00	149344		50	50
240-42438-4	09/30/2014 12:00	149344		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 10/01/2014 11:39 End Date: 10/01/2014 20:31

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
ICIS 240-149707/1	1		11:39	X	X	X	X	X	X	X													
CALSTD 240-149707/2 IC			11:43	X	X	X	X	X	X	X													
CALSTD 240-149707/3 IC			11:47	X	X	X	X	X	X	X													
ICV 240-149707/4	1		11:51	X	X	X	X	X	X	X													
ICB 240-149707/5	1		11:55	X	X	X	X	X	X	X													
CRI 240-149707/6			11:59																				
ZZZZZZ			12:03																				
ICSA 240-149707/8	1		12:07	X	X	X	X	X	X	X													
ICSAB 240-149707/9	1		12:11	X	X	X	X	X	X	X													
CCV 240-149707/10			12:15																				
CCB 240-149707/11			12:19																				
ZZZZZZ			12:23																				
ZZZZZZ			12:27																				
ZZZZZZ			12:32																				
ZZZZZZ			12:36																				
ZZZZZZ			12:40																				
ZZZZZZ			12:44																				
CCV 240-149707/18			12:52																				
CCB 240-149707/19			12:56																				
ZZZZZZ			13:00																				
ZZZZZZ			13:05																				
ZZZZZZ			13:09																				
ZZZZZZ			13:13																				
ZZZZZZ			13:17																				
CRI 240-149707/25	1		13:21	X	X	X	X	X	X	X													
ZZZZZZ			13:25																				
ZZZZZZ			13:30																				
ZZZZZZ			13:34																				
ZZZZZZ			13:38																				
CCV 240-149707/30	1		13:42	X	X	X	X	X	X	X													
CCB 240-149707/31	1		13:46	X	X	X	X	X	X	X													
MB 240-149343/1-A	1	R	13:50	X	X	X	X	X	X	X													
LCS 240-149343/2-A	1	R	13:54	X	X	X	X	X	X	X													
240-42438-1	1	R	13:58	X	X	X	X	X	X	X													
240-42438-2	1	R	14:02	X	X	X	X	X	X	X													
240-42438-4	1	R	14:06	X	X	X	X	X	X	X													
ZZZZZZ			14:10																				
CRI 240-149707/38	1		14:14	X	X	X	X	X	X	X													
ZZZZZZ			14:18																				
ZZZZZZ			14:23																				
ZZZZZZ			14:27																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 10/01/2014 11:39 End Date: 10/01/2014 20:31

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
CCV 240-149707/42	1		14:31	X	X	X	X	X	X	X													
CCB 240-149707/43	1		14:35	X	X	X	X	X	X	X													
ZZZZZZ			14:39																				
ZZZZZZ			14:43																				
ZZZZZZ			14:47																				
ZZZZZZ			14:51																				
ZZZZZZ			14:55																				
ZZZZZZ			14:59																				
ZZZZZZ			15:04																				
ZZZZZZ			15:08																				
ZZZZZZ			15:12																				
ZZZZZZ			15:16																				
CCV 240-149707/54			15:21																				
CCB 240-149707/55			15:24																				
ZZZZZZ			15:29																				
ZZZZZZ			15:33																				
ZZZZZZ			15:37																				
ZZZZZZ			15:41																				
ZZZZZZ			15:45																				
ZZZZZZ			15:49																				
ZZZZZZ			15:53																				
ZZZZZZ			15:57																				
ZZZZZZ			16:01																				
ZZZZZZ			16:05																				
CCV 240-149707/66			16:10																				
CCB 240-149707/67			16:14																				
ZZZZZZ			16:18																				
ZZZZZZ			16:22																				
ZZZZZZ			16:27																				
ZZZZZZ			16:31																				
ZZZZZZ			16:35																				
ZZZZZZ			16:39																				
ZZZZZZ			16:43																				
ZZZZZZ			16:47																				
ZZZZZZ			16:51																				
ZZZZZZ			16:55																				
CCV 240-149707/78			16:59																				
CCB 240-149707/79			17:03																				
ZZZZZZ			17:07																				
ZZZZZZ			17:11																				
ZZZZZZ			17:15																				
ZZZZZZ			17:20																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 10/01/2014 11:39 End Date: 10/01/2014 20:31

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
ZZZZZZ			17:24																				
ZZZZZZ			17:28																				
ZZZZZZ			17:32																				
ZZZZZZ			17:37																				
ZZZZZZ			17:41																				
ZZZZZZ			17:44																				
CCV 240-149707/90			17:49																				
CCB 240-149707/91			17:52																				
ZZZZZZ			17:57																				
ZZZZZZ			18:01																				
ZZZZZZ			18:05																				
ZZZZZZ			18:09																				
ZZZZZZ			18:13																				
ZZZZZZ			18:17																				
ZZZZZZ			18:21																				
ZZZZZZ			18:25																				
ZZZZZZ			18:29																				
ZZZZZZ			18:33																				
CCV 240-149707/102			18:37																				
CCB 240-149707/103			18:41																				
ZZZZZZ			18:46																				
ZZZZZZ			18:49																				
ZZZZZZ			18:53																				
ZZZZZZ			18:57																				
ZZZZZZ			19:01																				
ZZZZZZ			19:05																				
ZZZZZZ			19:09																				
ZZZZZZ			19:13																				
ZZZZZZ			19:17																				
ZZZZZZ			19:21																				
CCV 240-149707/114			19:26																				
CCB 240-149707/115			19:29																				
ZZZZZZ			19:34																				
ZZZZZZ			19:38																				
ZZZZZZ			19:42																				
ZZZZZZ			19:46																				
ZZZZZZ			19:50																				
ZZZZZZ			19:54																				
ZZZZZZ			19:59																				
ZZZZZZ			20:03																				
ZZZZZZ			20:07																				
ZZZZZZ			20:11																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 10/01/2014 11:39 End Date: 10/01/2014 20:31

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
CCV 240-149707/126			20:15																				
CCB 240-149707/127			20:19																				
ZZZZZZ			20:23																				
CCV 240-149707/129			20:28																				
CCB 240-149707/130			20:31																				

Prep Types

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/01/2014 17:29 End Date: 10/01/2014 22:05

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 240-149811/1-A			17:29	X																			
IC 240-149811/2-A			17:31	X																			
IC 240-149811/3-A			17:33	X																			
IC 240-149811/4-A			17:37	X																			
IC 240-149811/5-A			17:38	X																			
IC 240-149811/6-A			17:41	X																			
ZZZZZZ			18:08																				
ICV 240-149811/7-A	1		18:11	X																			
ICB 240-149811/8-A	1		18:13	X																			
CRA 240-149811/9-A	1		18:15	X																			
CCVL 240-149811/10-A	1		18:17	X																			
CCB 240-149811/12-A			18:19																				
ZZZZZZ			18:22																				
ZZZZZZ			18:24																				
ZZZZZZ			18:26																				
ZZZZZZ			18:28																				
ZZZZZZ			18:31																				
ZZZZZZ			18:33																				
ZZZZZZ			18:35																				
ZZZZZZ			18:37																				
ZZZZZZ			18:39																				
ZZZZZZ			18:41																				
CCV 240-149811/11-A			18:43																				
CCB 240-149811/12-A			18:46																				
ZZZZZZ			18:48																				
ZZZZZZ			18:50																				
ZZZZZZ			18:52																				
ZZZZZZ			18:54																				
ZZZZZZ			18:56																				
ZZZZZZ			18:58																				
ZZZZZZ			19:01																				
ZZZZZZ			19:04																				
ZZZZZZ			19:06																				
ZZZZZZ			19:08																				
CCV 240-149811/11-A			19:10																				
CCB 240-149811/12-A			19:12																				
ZZZZZZ			19:14																				
ZZZZZZ			19:16																				
ZZZZZZ			19:18																				
ZZZZZZ			19:20																				
ZZZZZZ			19:22																				
ZZZZZZ			19:24																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/01/2014 17:29 End Date: 10/01/2014 22:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			19:26																				
ZZZZZZ			19:29																				
ZZZZZZ			19:31																				
ZZZZZZ			19:33																				
CCV 240-149811/11-A			19:35																				
CCB 240-149811/12-A			19:38																				
ZZZZZZ			19:40																				
ZZZZZZ			19:42																				
ZZZZZZ			19:44																				
ZZZZZZ			19:46																				
ZZZZZZ			19:48																				
ZZZZZZ			19:51																				
ZZZZZZ			19:54																				
ZZZZZZ			19:55																				
ZZZZZZ			19:57																				
ZZZZZZ			20:00																				
CCV 240-149811/11-A	1		20:03	X																			
CCB 240-149811/12-A	1		20:05	X																			
ZZZZZZ			20:08																				
ZZZZZZ			20:10																				
ZZZZZZ			20:12																				
ZZZZZZ			20:14																				
MB 240-149344/1-A	1	T	20:16	X																			
LCS 240-149344/2-A	1	T	20:18	X																			
ZZZZZZ			20:20																				
240-42451-D-1-E MS	1	D	20:22	X																			
240-42451-D-1-F MSD	1	D	20:25	X																			
240-42438-1	1	T	20:27	X																			
CCV 240-149811/11-A	1		20:29	X																			
CCB 240-149811/12-A	1		20:31	X																			
240-42438-2	1	T	20:33	X																			
240-42438-4	1	T	20:35	X																			
ZZZZZZ			20:36																				
ZZZZZZ			20:38																				
ZZZZZZ			20:41																				
ZZZZZZ			20:42																				
ZZZZZZ			20:44																				
ZZZZZZ			20:47																				
ZZZZZZ			20:48																				
ZZZZZZ			20:51																				
CCV 240-149811/11-A	1		20:53	X																			
CCB 240-149811/12-A	1		20:55	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/01/2014 17:29 End Date: 10/01/2014 22:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			20:58																				
ZZZZZZ			21:00																				
ZZZZZZ			21:01																				
ZZZZZZ			21:03																				
ZZZZZZ			21:05																				
ZZZZZZ			21:07																				
ZZZZZZ			21:10																				
ZZZZZZ			21:12																				
ZZZZZZ			21:14																				
ZZZZZZ			21:15																				
CCV 240-149811/11-A			21:17																				
CCB 240-149811/12-A			21:19																				
ZZZZZZ			21:22																				
ZZZZZZ			21:24																				
ZZZZZZ			21:27																				
ZZZZZZ			21:28																				
ZZZZZZ			21:30																				
ZZZZZZ			21:32																				
ZZZZZZ			21:34																				
ZZZZZZ			21:36																				
ZZZZZZ			21:38																				
ZZZZZZ			21:40																				
CCV 240-149811/11-A			21:42																				
CCB 240-149811/12-A			21:45																				
ZZZZZZ			21:47																				
ZZZZZZ			21:49																				
ZZZZZZ			21:51																				
ZZZZZZ			21:53																				
ZZZZZZ			21:55																				
ZZZZZZ			21:57																				
ZZZZZZ			21:59																				
ZZZZZZ			22:01																				
CCV 240-149811/11-A			22:03																				
CCB 240-149811/12-A			22:05																				

Prep Types

D = Dissolved

T = Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Batch Number: 149343 Batch Start Date: 09/30/14 09:31 Batch Analyst: Lecorchick, Willis A

Batch Method: 3005A Batch End Date: 09/30/14 17:31

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00042	MTICP1 00033	MTICP2A 00040	MTTMHCL 00045
MB 240-149343/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-149343/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-42438-E-1	WSP-1-092614	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-42438-D-2	WSP-2-092614	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-42438-E-4	WSP-4-092614	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00039
MB 240-149343/1		3005A, 6010C		1 mL
LCS 240-149343/2		3005A, 6010C		1 mL
240-42438-E-1	WSP-1-092614	3005A, 6010C	R	1 mL
240-42438-D-2	WSP-2-092614	3005A, 6010C	R	1 mL
240-42438-E-4	WSP-4-092614	3005A, 6010C	R	1 mL

Batch Notes	
Filter Paper Lot Number	9579735
Hot Block ID number	HB2
Pipette ID	383364
Digestion Tube/Cup Lot #	1404094

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Batch Number: 149344 Batch Start Date: 09/30/14 12:00 Batch Analyst: Lecorchick, Willis A

Batch Method: 7470A Batch End Date: 09/30/14 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00014	MTH2S04 00020	MTHGCALW 00733	MTKMN04W 00070
MB 240-149344/1		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
LCS 240-149344/2		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-42451-D-1 MS		7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-42451-D-1 MSD		7470A, 7470A	D	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-42438-E-1	WSP-1-092614	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-42438-D-2	WSP-2-092614	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-42438-E-4	WSP-4-092614	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00039					
MB 240-149344/1		7470A, 7470A		1.25 mL					
LCS 240-149344/2		7470A, 7470A		1.25 mL					
240-42451-D-1 MS		7470A, 7470A	D	1.25 mL					
240-42451-D-1 MSD		7470A, 7470A	D	1.25 mL					
240-42438-E-1	WSP-1-092614	7470A, 7470A	T	1.25 mL					
240-42438-D-2	WSP-2-092614	7470A, 7470A	T	1.25 mL					
240-42438-E-4	WSP-4-092614	7470A, 7470A	T	1.25 mL					

Batch Notes	
Hot Block ID number	B1
Pipette ID	383363-383366
Digestion Tube/Cup Lot #	1404094

Basis	Basis Description
T	Total/NA
D	Dissolved

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42438-1

SDG No.:

Batch Number: 149811 Batch Start Date: 10/01/14 13:30 Batch Analyst: Martin, Aaron

Batch Method: 7470A Batch End Date: 10/01/14 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTH2S04 00020	MTHGCALW 00734	MTHgStd 00011	MTK2S208RGNT 00054
ICV 240-149811/7		7470A, 7470A		50 mL	50 mL	2.5 mL		0.125 mL	4 mL
ICB 240-149811/8		7470A, 7470A		50 mL	50 mL	2.5 mL			4 mL
CRA 240-149811/9		7470A, 7470A		50 mL	50 mL	2.5 mL	0.1 mL		4 mL
CCVL 240-149811/10		7470A, 7470A		50 mL	50 mL	2.5 mL	2.5 mL		4 mL
CCV 240-149811/11		7470A, 7470A		50 mL	50 mL	2.5 mL	2.5 mL		4 mL
CCB 240-149811/12		7470A, 7470A		50 mL	50 mL	2.5 mL			4 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTKMN04W 00070	MTTMHNO3 00040				
ICV 240-149811/7		7470A, 7470A		7.5 mL	1.25 mL				
ICB 240-149811/8		7470A, 7470A		7.5 mL	1.25 mL				
CRA 240-149811/9		7470A, 7470A		7.5 mL	1.25 mL				
CCVL 240-149811/10		7470A, 7470A		7.5 mL	1.25 mL				
CCV 240-149811/11		7470A, 7470A		7.5 mL	1.25 mL				
CCB 240-149811/12		7470A, 7470A		7.5 mL	1.25 mL				

Batch Notes	
Hot Block ID number	B1
Pipette ID	383364-383366
Digestion Tube/Cup Lot #	1404094

Basis	Basis Description

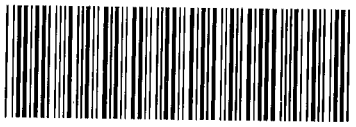
The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-42438 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

Chain of Custody Record

4.2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Stu Cameron	Lab PM: John McFadden	Carrier Tracking No(s):	COC No: 180-19478-4921.2
Client Contact: Mr. Stuart Cameron	Phone: (703) 342-8389	E-Mail: John.McFadden@testamericainc.com		Page: Page 1 of 1
Company: Tetra Tech, Inc.				Job #: MI C04770
Address: 20251 Century Blvd Suite 200	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Germantown	TAT Requested (days): 5 day TAT			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: MD, 20874				
Phone: (301) 528-3002	PO #:			
Email: Stuart.Cameron@TetraTech.com	WO #:			Other:
Project Name: MRC Block E MPE System O&M	Project #: 12I C04770			
Site: Middle River Complex, Block E	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs - TCL	Metals (Cd, Cr, Cu, Pb, Hg, Ni, Ag, Zn)	VOCs - PP (TTO, volatile-garrison)	SVOCs - PP (With TCDD screen) (TTO, non-volatile)	Pesticides - PP (TTO, non-volatile)	PCBs - PP (TTO, non volatile)	TPH (1664, as SGT-HEM)	pH, BOD, TSS (general chemistry)	COD, TKN, Total P (general chemistry)	Cyanides	PH	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N	N	N	N	S	N	S	B	V		
WSP-1-092614	9/26/14	1500	G	W			3	2									1		
WSP-2-092614	↓	1505	G	W			3	2											
WSP-3-092614	↓	1510	G	W			3	2											
WSP-4-092614	↓	1515	G	W			3	2											
TB-092614	~	~	~	W			2												

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 9-26-14 / 1530	Company: Tetra Tech	Received by:	Date/Time: 9/26/14 1600	Company: TestAmerica
Relinquished by:	Date/Time: 9/26/14 1650	Company: TT	Received by: Jessie Bond	Date/Time: 9/27/14 9:50	Company: TA Canton
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative Login # :_____
Canton Facility

Client Tetra Tech Site Name MRC Block E

Cooler unpacked by: Jessie Bonar

Cooler Received on 9/27/14 Opened on 9/27/14

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other_____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +2 °C)	Observed Cooler Temp._____ °C	Corrected Cooler Temp._____ °C	☐ See Multiple Cooler Form
IR GUN# 4	(CF -2 °C)	Observed Cooler Temp._____ °C	Corrected Cooler Temp._____ °C	
IR GUN# 5	(CF 0 °C)	Observed Cooler Temp._____ °C	Corrected Cooler Temp._____ °C	
IR GUN# 8	(CF 0 °C)	Observed Cooler Temp. 4.2 °C	Corrected Cooler Temp. 4.2 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? (Yes) No NA pH Strip Lot# HC412469
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? (Yes) No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: Jessie Bonar

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ 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 the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
WSP-1-092614	240-42438-D-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-1-092614	240-42438-E-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-2-092614	240-42438-D-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-2-092614	240-42438-E-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-4-092614	240-42438-D-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-4-092614	240-42438-E-4	Plastic 250ml - with Nitric Acid	<2	_____	_____

9/29/2014 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-42475-1

Job Description: LM MRC Block E MPE System O&M

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
10/14/2014 9:30 AM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
10/14/2014

cc: Samantha Brenner
Ms. Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: LM MRC Block E MPE System O&M

Report Number: 240-42475-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 9/30/2014 7:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample DSP-1-092914 GRAB (240-42475-1) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The samples were analyzed on 10/01/2014.

Methylene Chloride was detected in method blank MB 240-149656/5 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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The continuing calibration verification (CCV) associated with batch 149656 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DSP-1-092914 GRAB (240-42475-1).

The following sample submitted for volatiles analysis was received with insufficient preservation (pH >2): DSP-1-092914 GRAB (240-42475-1)(pH of 5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Sample DSP-1-092914 COMP (240-42475-2) was analyzed for semivolatile organic compounds (GCMS) in accordance with EPA Method 625. The samples were prepared on 10/04/2014 and 10/10/2014 and analyzed on 10/08/2014 and 10/12/2014.

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 240-150974/9-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The laboratory control sample (LCS) for prep batch 151224, associated with samples DSP-1-092914 COMP (240-42475-2), recovered outside control limits for benzidine. The associated samples were re-prepared and re-analyzed outside holding time with all QC meeting acceptance criteria. The initial results have been reported as has benzidine from the reextracted results.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 150089, 625.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 150974, 625.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DIOXIN SCREEN

Sample DSP-1-092914 COMP (240-42475-2) was analyzed for Dioxin Screen in accordance with EPA Method 625 Dioxin Screen. The samples were prepared on 10/04/2014 and analyzed on 10/11/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample DSP-1-092914 COMP (240-42475-2) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA Method 608. The samples were prepared on 10/02/2014 and analyzed on 10/03/2014.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 149713, 608 PCB.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED PESTICIDES

Sample DSP-1-092914 COMP (240-42475-2) was analyzed for chlorinated pesticides in accordance with EPA Method 608. The samples were prepared on 10/01/2014 and analyzed on 10/06/2014.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

The continuing calibration verification (CCV) associated with batch 150213 recovered above the upper control limit for Multiple Analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DSP-1-092914 COMP (240-42475-2).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 149492, 608 Pest.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICP)

Sample DSP-1-092914 COMP (240-42475-2) was analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/01/2014 and analyzed on 10/02/2014.

Antimony and Manganese were detected in method blank MB 240-149504/1-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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Sample DSP-1-092914 COMP (240-42475-2) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 10/01/2014 and analyzed on 10/03/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

N-HEXANE EXTRACTABLE MATERIAL

Sample DSP-1-092914 GRAB (240-42475-1) was analyzed for n-hexane extractable material in accordance with EPA Method 1664A. The samples were prepared and analyzed on 10/03/2014.

Analysis for Hexane Extractable Material (HEM) was performed for the following samples: DSP-1-092914 GRAB (240-42475-1). Since the HEM results were below the reporting limit (RL), the results for Silica Gel Treated - Hexane Extractable Material (SGT-HEM) were reported as a non-detect. All HEM quality control criteria were met.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS
Sample DSP-1-092914 GRAB (240-42475-1) was analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 10/02/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE
Sample DSP-1-092914 GRAB (240-42475-1) was analyzed for total cyanide in accordance with SM 4500_CN-E. The samples were prepared and analyzed on 10/07/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL PHOSPHORUS
Sample DSP-1-092914 GRAB (240-42475-1) was analyzed for total phosphorus in accordance with SM 4500 P E. The samples were prepared and analyzed on 10/03/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

BIOCHEMICAL OXYGEN DEMAND
Sample DSP-1-092914 GRAB (240-42475-1) was analyzed for Biochemical oxygen demand in accordance with SM 5210B. The samples were analyzed on 10/01/2014.

The glucose-glutamic acid standard recovered outside the recovery limits specified in the method in batch 149475 .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHEMICAL OXYGEN DEMAND
Sample DSP-1-092914 GRAB (240-42475-1) was analyzed for chemical oxygen demand in accordance with SM 5220D. The samples were analyzed on 10/01/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Sample DSP-1-092914 GRAB (240-42475-1) was analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 09/30/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL KJELDAHL NITROGEN
Sample DSP-1-092914 GRAB (240-42475-1) was analyzed for total kjeldahl nitrogen in accordance with SM 4500 NH3 E. The samples were prepared on 10/02/2014 and analyzed on 10/03/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 150155

Lab Sample ID: STD5 240-150155/2 IC Client Sample ID:

Date Analyzed: 10/05/14 18:03 Lab File ID: 41005002.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.02	Poor Chromatography	ulmanm	10/05/14 18:29

Lab Sample ID: STD4 240-150155/3 IC Client Sample ID:

Date Analyzed: 10/05/14 18:28 Lab File ID: 41005003.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.01	Poor Chromatography	ulmanm	10/06/14 06:42

Lab Sample ID: STD3 240-150155/4 IC Client Sample ID:

Date Analyzed: 10/05/14 18:53 Lab File ID: 41005004.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.02	Poor Chromatography	ulmanm	10/06/14 06:45
N-Nitrosodimethylamine	3.52	Poor Chromatography	ulmanm	10/06/14 06:45
Benzoic acid	7.08	Poor Chromatography	ulmanm	10/06/14 06:45

Lab Sample ID: STD2 240-150155/5 IC Client Sample ID:

Date Analyzed: 10/05/14 19:18 Lab File ID: 41005005.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.01	Poor Chromatography	ulmanm	10/06/14 06:47
N-Nitrosodimethylamine	3.53	Poor Chromatography	ulmanm	10/06/14 06:47
Pyridine	3.57	Poor Chromatography	ulmanm	10/06/14 06:47
Indeno[1,2,3-cd]pyrene	16.14	Poor Chromatography	ulmanm	10/06/14 06:48
Benzo[g,h,i]perylene	16.72	Poor Chromatography	ulmanm	10/06/14 06:48

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 150155

Lab Sample ID: STD1 240-150155/6 IC Client Sample ID:

Date Analyzed: 10/05/14 19:42 Lab File ID: 41005006.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	13.70	Poor Chromatography	ulmanm	10/06/14 06:50
Indeno[1,2,3-cd]pyrene	16.14	Poor Chromatography	ulmanm	10/06/14 06:50
Dibenz(a,h)anthracene	16.16	Poor Chromatography	ulmanm	10/06/14 06:50
Benzo[g,h,i]perylene	16.73	Poor Chromatography	ulmanm	10/06/14 06:50

Lab Sample ID: STD9 240-150155/7 IC Client Sample ID:

Date Analyzed: 10/05/14 20:07 Lab File ID: 41005007.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.01	Poor Chromatography	ulmanm	10/06/14 06:52

Lab Sample ID: STD8 240-150155/8 IC Client Sample ID:

Date Analyzed: 10/05/14 20:32 Lab File ID: 41005008.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.01	Poor Chromatography	ulmanm	10/06/14 06:55

Lab Sample ID: STD7 240-150155/9 IC Client Sample ID:

Date Analyzed: 10/05/14 20:56 Lab File ID: 41005009.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.01	Poor Chromatography	ulmanm	10/06/14 06:56

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 150155

Lab Sample ID: STD6 240-150155/10 ICIS Client Sample ID:

Date Analyzed: 10/05/14 21:21 Lab File ID: 41005010.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.01	Poor Chromatography	ulmanm	10/06/14 06:59

Lab Sample ID: ICV 240-150155/11 Client Sample ID:

Date Analyzed: 10/05/14 21:46 Lab File ID: 41005011.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	3.00	Poor Chromatography	ulmanm	10/06/14 07:09

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 150544

Lab Sample ID: CCV 240-150544/2 CCVIS Client Sample ID:

Date Analyzed: 10/08/14 07:18 Lab File ID: 41008002.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.83	Poor Chromatography	ulmanm	10/08/14 07:57

PESTICIDES/PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP11 Analysis Batch Number: 133461

Lab Sample ID: STD0025 240-133461/10 IC Client Sample ID:

Date Analyzed: 06/05/14 14:08 Lab File ID: P1100010.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	2.97	Baseline Event	hassl	06/06/14 08:56
PCB-1242 Peak 2	3.39	Baseline Event	hassl	06/06/14 08:56
PCB-1242 Peak 3	3.84	Baseline Event	hassl	06/06/14 08:56
PCB-1242 Peak 4	3.97	Baseline Event	hassl	06/06/14 08:56
PCB-1242 Peak 5	4.17	Baseline Event	hassl	06/06/14 08:56

Lab Sample ID: STD005 240-133461/11 IC Client Sample ID:

Date Analyzed: 06/05/14 14:22 Lab File ID: P1100011.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	2.97	Split Peak	hassl	06/06/14 08:57
PCB-1242 Peak 2	3.38	Split Peak	hassl	06/06/14 08:57
PCB-1242 Peak 3	3.84	Split Peak	hassl	06/06/14 08:57
PCB-1242 Peak 4	3.97	Split Peak	hassl	06/06/14 08:57
PCB-1242 Peak 5	4.17	Baseline Event	hassl	06/06/14 08:57

Lab Sample ID: STD005 240-133461/18 IC Client Sample ID:

Date Analyzed: 06/05/14 16:03 Lab File ID: P1100018.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 1	3.83	Baseline Event	hassl	06/06/14 08:58
PCB-1248 Peak 2	4.17	Baseline Event	hassl	06/06/14 08:58
PCB-1248 Peak 3	4.44	Baseline Event	hassl	06/06/14 08:58
PCB-1248 Peak 4	4.91	Baseline Event	hassl	06/06/14 08:58
PCB-1248 Peak 5	5.61	Baseline Event	hassl	06/06/14 08:58

PESTICIDES/PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP11 Analysis Batch Number: 133461

Lab Sample ID: STD1 240-133461/22 IC Client Sample ID:

Date Analyzed: 06/05/14 16:59 Lab File ID: P1100022.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 1	3.84	Baseline Event	hassl	06/06/14 08:59
PCB-1248 Peak 2	4.17	Baseline Event	hassl	06/06/14 08:59
PCB-1248 Peak 3	4.44	Baseline Event	hassl	06/06/14 08:59
PCB-1248 Peak 4	4.91	Baseline Event	hassl	06/06/14 08:59
PCB-1248 Peak 5	5.61	Baseline Event	hassl	06/06/14 08:59

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 140995

Lab Sample ID: STD 240-140995/19 IC Client Sample ID:

Date Analyzed: 07/31/14 21:54 Lab File ID: P3073119.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.58	Baseline Event	matthewsb	08/01/14 08:03
Toxaphene Peak 2	10.04	Baseline Event	matthewsb	08/01/14 08:03
Toxaphene Peak 3	10.35	Baseline Event	matthewsb	08/01/14 08:03
Toxaphene Peak 4	10.69	Baseline Event	matthewsb	08/01/14 08:03
Toxaphene Peak 5	10.80	Baseline Event	matthewsb	08/01/14 08:03

Lab Sample ID: STD 240-140995/20 IC Client Sample ID:

Date Analyzed: 07/31/14 22:15 Lab File ID: P3073120.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.58	Baseline Event	matthewsb	08/01/14 08:04
Toxaphene Peak 2	10.04	Baseline Event	matthewsb	08/01/14 08:04
Toxaphene Peak 3	10.35	Baseline Event	matthewsb	08/01/14 08:04
Toxaphene Peak 4	10.69	Baseline Event	matthewsb	08/01/14 08:04
Toxaphene Peak 5	10.80	Baseline Event	matthewsb	08/01/14 08:04

Lab Sample ID: STD 240-140995/20 IC Client Sample ID:

Date Analyzed: 07/31/14 22:15 Lab File ID: P3073120.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.93	Baseline Event	matthewsb	08/01/14 08:04
Toxaphene Peak 2	11.10	Baseline Event	matthewsb	08/01/14 08:04
Toxaphene Peak 3	11.53	Baseline Event	matthewsb	08/01/14 08:04
Toxaphene Peak 4	12.26	Baseline Event	matthewsb	08/01/14 08:04
Toxaphene Peak 5	12.36	Baseline Event	matthewsb	08/01/14 08:04

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 140995

Lab Sample ID: STD 240-140995/21 ICRT Client Sample ID:

Date Analyzed: 07/31/14 22:37 Lab File ID: P3073121.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.58	Baseline Event	matthewsb	08/01/14 08:03
Toxaphene Peak 2	10.04	Baseline Event	matthewsb	08/01/14 08:03
Toxaphene Peak 3	10.35	Baseline Event	matthewsb	08/01/14 08:03
Toxaphene Peak 4	10.69	Baseline Event	matthewsb	08/01/14 08:03
Toxaphene Peak 5	10.80	Baseline Event	matthewsb	08/01/14 08:03

Lab Sample ID: STD 240-140995/22 IC Client Sample ID:

Date Analyzed: 07/31/14 22:59 Lab File ID: P3073122.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.58	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 2	10.04	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 3	10.35	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 4	10.69	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 5	10.80	Baseline Event	matthewsb	08/01/14 08:05

Lab Sample ID: STD 240-140995/22 IC Client Sample ID:

Date Analyzed: 07/31/14 22:59 Lab File ID: P3073122.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.93	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 2	11.10	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 3	11.53	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 4	12.26	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 5	12.36	Baseline Event	matthewsb	08/01/14 08:05

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 140995

Lab Sample ID: STD 240-140995/23 IC Client Sample ID:

Date Analyzed: 07/31/14 23:20 Lab File ID: P3073123.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.93	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 2	11.10	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 3	11.52	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 4	12.26	Baseline Event	matthewsb	08/01/14 08:05
Toxaphene Peak 5	12.36	Baseline Event	matthewsb	08/01/14 08:05

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 149897

Lab Sample ID: STD 240-149897/7 IC Client Sample ID:

Date Analyzed: 10/03/14 14:24 Lab File ID: P3100107.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDD	10.77	Split Peak	matthewsb	10/04/14 10:49
Endosulfan II	10.79	Split Peak	matthewsb	10/04/14 10:49

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 150213

Lab Sample ID: PEM 240-150213/3 Client Sample ID:

Date Analyzed: 10/06/14 10:48 Lab File ID: P3100603.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
4,4'-DDE	7.78	Baseline Event	matthewsb	10/06/14 12:54

Lab Sample ID: CCV 240-150213/4 CCVRT Client Sample ID:

Date Analyzed: 10/06/14 11:10 Lab File ID: P3100604.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.39	Baseline Event	matthewsb	10/06/14 12:55
Toxaphene Peak 2	9.86	Baseline Event	matthewsb	10/06/14 12:55
Toxaphene Peak 3	10.17	Baseline Event	matthewsb	10/06/14 12:55
Toxaphene Peak 4	10.52	Baseline Event	matthewsb	10/06/14 12:55
Toxaphene Peak 5	10.63	Baseline Event	matthewsb	10/06/14 12:55

Lab Sample ID: CCV 240-150213/11 Client Sample ID:

Date Analyzed: 10/06/14 13:48 Lab File ID: P3100611.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.39	Baseline Event	matthewsb	10/06/14 14:06
Toxaphene Peak 2	9.86	Baseline Event	matthewsb	10/06/14 14:06
Toxaphene Peak 3	10.18	Baseline Event	matthewsb	10/06/14 14:06
Toxaphene Peak 4	10.52	Baseline Event	matthewsb	10/06/14 14:06
Toxaphene Peak 5	10.63	Baseline Event	matthewsb	10/06/14 14:06

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Analysis Batch Number: 150213

Lab Sample ID: CCV 240-150213/11 Client Sample ID:

Date Analyzed: 10/06/14 13:48 Lab File ID: P3100611.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.77	Baseline Event	matthewsb	10/06/14 14:06
Toxaphene Peak 2	10.94	Baseline Event	matthewsb	10/06/14 14:06
Toxaphene Peak 3	11.37	Baseline Event	matthewsb	10/06/14 14:06
Toxaphene Peak 4	12.11	Baseline Event	matthewsb	10/06/14 14:06
Toxaphene Peak 5	12.21	Baseline Event	matthewsb	10/06/14 14:06

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-42475-1	DSP-1-092914 GRAB	Water	09/29/2014 1200	09/30/2014 0730
240-42475-2	DSP-1-092914 COMP	Water	09/29/2014 1200	09/30/2014 0730

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-42475-1	**DSP-1-092914 GRAB**					
pH		8.05	HF	0.100	SU	4500 H+ B-2000
Chemical Oxygen Demand		5.5	J	10	mg/L	5220D-1997
Total Phosphorus as P		0.067	J	0.10	mg/L	SM4500 P E-1999
Nitrogen, Kjeldahl		2.3	J	5.0	mg/L	SM4500_NH3_C
240-42475-2	**DSP-1-092914 COMP**					
2,3,7,8-TCDD		NEG			ng/uL	625
alpha-BHC		0.043	J	0.049	ug/L	608
4,4'-DDT		0.026	J p	0.049	ug/L	608
Total Recoverable						
Lead		7.9	J	10	ug/L	6010C
Zinc		15	J	50	ug/L	6010C

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
Dioxin Screen (GC/MS SIM)	TAL CAN	40CFR136A 625	
Liquid-Liquid Extraction (Continuous)	TAL CAN		SW846 3520C
Semivolatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 625	
Liquid-Liquid Extraction	TAL CAN		40CFR136A 625
Organochlorine Pesticides in Water	TAL CAN	40CFR136A 608	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CAN		40CFR136A 608
Polychlorinated Biphenyls (PCBs) (GC)	TAL CAN	40CFR136A 608	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CAN		40CFR136A 608
Metals (ICP)	TAL CAN	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL CAN		SW846 3005A
Mercury (CVAA)	TAL CAN	SW846 7470A	
Preparation, Mercury	TAL CAN		SW846 7470A
HEM and SGT-HEM	TAL CAN	1664A 1664A	
HEM and SGT-HEM (Aqueous)	TAL CAN		1664A 1664A
pH	TAL CAN	SM 4500 H+ B-2000	
BOD, 5-Day	TAL CAN	SM 5210B-2001	
Chemical Oxygen Demand	TAL CAN	SM 5220D-1997	
Solids, Total Suspended (TSS)	TAL CAN	SM SM 2540D	
Cyanide, Total	TAL CAN	SM SM 4500 CN E	
Distillation, Cyanide	TAL CAN		Distill/CN
Phosphorus	TAL CAN	SM SM4500 P E-1999	
Phosphorus, Total	TAL CAN		MCAWW 365.2/365.3/365
Kjeldahl Nitrogen, Total	TAL CAN	SM SM4500_NH3_C	
Preparation, Nitrogen -Total Kjeldahl	TAL CAN		SM SM4500Norg_C

Lab References:

TAL CAN = TestAmerica Canton

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

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

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
40CFR136A 625	Ulman, Mark	MRU
40CFR136A 608	Grant, Katie	KMG
40CFR136A 608	Matthews, Brandon	BPM
SW846 6010C	Sutherland, Aaron	ADS
SW846 7470A	Martin, Aaron	AMM2
1664A 1664A	Eikelberry, Nicholas	NJE
SM 4500 H+ B-2000	Eikelberry, Nicholas	NJE
SM 5210B-2001	Grossman, Lucas	LKG
SM 5220D-1997	Kuhle, Julie	JAK
SM SM 2540D	Sharma, Anjali	AS1
SM SM 4500 CN E	Matheny, Sarah	SEM
SM SM4500 P E-1999	Woodward, Bruce	BLW
SM SM4500_NH3_C	Kuhle, Julie	JAK

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Client Sample ID: **DSP-1-092914 GRAB**

Lab Sample ID: 240-42475-1 Date Sampled: 09/29/2014 1200
Client Matrix: Water Date Received: 09/30/2014 0730

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-149656	Instrument ID:	A3UX9
	N/A	Prep Batch:	N/A	Lab File ID:	UX946191.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/01/2014 2120			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.17	U	0.17	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2-Chloroethyl vinyl ether	1.2	U	1.2	2.0
Acrolein	1.4	U	1.4	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.24	U	0.24	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	2.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	2.0
Chloroform	0.21	U	0.21	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.15	U	0.15	1.0
Ethylbenzene	0.23	U	0.23	1.0
Methylene Chloride	0.28	U	0.28	2.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		80 - 125
4-Bromofluorobenzene (Surr)	84		80 - 120

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Client Sample ID: **DSP-1-092914 COMP**

Lab Sample ID: 240-42475-2 Date Sampled: 09/29/2014 1200
Client Matrix: Water Date Received: 09/30/2014 0730

625 Semivolatile Organic Compounds (GC/MS)

Analysis Method:	625	Analysis Batch:	240-150544	Instrument ID:	A4HP9
Prep Method:	625	Prep Batch:	240-150089	Lab File ID:	41008032.D
Dilution:	1.0			Initial Weight/Volume:	1020 mL
Analysis Date:	10/08/2014 1943			Final Weight/Volume:	2 mL
Prep Date:	10/04/2014 0809			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene	0.27	U	0.27	9.8
2,4,6-Trichlorophenol	0.78	U	0.78	9.8
2,4-Dichlorophenol	0.78	U	0.78	9.8
2,4-Dimethylphenol	0.78	U	0.78	9.8
2,4-Dinitrotoluene	0.26	U	0.26	9.8
2,6-Dinitrotoluene	0.78	U	0.78	9.8
2-Chloronaphthalene	0.098	U	0.098	9.8
2-Chlorophenol	0.28	U	0.28	9.8
2-Nitrophenol	0.27	U	0.27	9.8
3,3'-Dichlorobenzidine	0.36	U	0.36	9.8
4,6-Dinitro-2-methylphenol	2.4	U	2.4	49
4-Bromophenyl phenyl ether	0.78	U	0.78	9.8
4-Chlorophenyl phenyl ether	0.29	U	0.29	9.8
4-Nitrophenol	2.4	U	2.4	49
Acenaphthene	0.098	U	0.098	9.8
Acenaphthylene	0.098	U	0.098	9.8
Anthracene	0.098	U	0.098	9.8
Benzidine	2.4	U *	2.4	4.9
Benzo[a]anthracene	0.098	U	0.098	9.8
Benzo[a]pyrene	0.098	U	0.098	9.8
Benzo[b]fluoranthene	0.098	U	0.098	9.8
Benzo[g,h,i]perylene	0.098	U	0.098	9.8
Benzo[k]fluoranthene	0.098	U	0.098	9.8
Bis(2-chloroethoxy)methane	0.31	U	0.31	9.8
Bis(2-chloroethyl)ether	0.098	U	0.098	9.8
Bis(2-ethylhexyl) phthalate	1.7	U	1.7	9.8
2,2'-oxybis[1-chloropropane]	0.39	U	0.39	9.8
Butyl benzyl phthalate	0.78	U	0.78	9.8
Chrysene	0.098	U	0.098	9.8
Dibenz(a,h)anthracene	0.098	U	0.098	9.8
Diethyl phthalate	0.59	U	0.59	9.8
Dimethyl phthalate	0.28	U	0.28	9.8
Di-n-butyl phthalate	1.7	U	1.7	9.8
Di-n-octyl phthalate	0.78	U	0.78	9.8
Fluoranthene	0.098	U	0.098	9.8
Fluorene	0.098	U	0.098	9.8
Hexachlorobenzene	0.098	U	0.098	9.8
Hexachlorobutadiene	0.26	U	0.26	9.8
Hexachlorocyclopentadiene	0.24	U	0.24	9.8
Hexachloroethane	0.78	U	0.78	9.8
Indeno[1,2,3-cd]pyrene	0.098	U	0.098	9.8
Isophorone	0.26	U	0.26	9.8
Naphthalene	0.098	U	0.098	9.8
Nitrobenzene	0.039	U	0.039	9.8
N-Nitrosodimethylamine	0.30	U	0.30	0.98
N-Nitrosodi-n-propylamine	0.78	U	0.78	9.8

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Client Sample ID: **DSP-1-092914 COMP**

Lab Sample ID: 240-42475-2 Date Sampled: 09/29/2014 1200
Client Matrix: Water Date Received: 09/30/2014 0730

625 Semivolatile Organic Compounds (GC/MS)

Analysis Method:	625	Analysis Batch:	240-150544	Instrument ID:	A4HP9
Prep Method:	625	Prep Batch:	240-150089	Lab File ID:	41008032.D
Dilution:	1.0			Initial Weight/Volume:	1020 mL
Analysis Date:	10/08/2014 1943			Final Weight/Volume:	2 mL
Prep Date:	10/04/2014 0809			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	0.30	U	0.30	9.8
4-Chloro-3-methylphenol	0.78	U	0.78	9.8
Pentachlorophenol	2.4	U	2.4	9.8
Phenanthrene	0.098	U	0.098	9.8
Phenol	0.59	U	0.59	9.8
Pyrene	0.098	U	0.098	9.8
1,2-Diphenylhydrazine	0.28	U	0.28	0.98

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorophenol	52		10 - 135
2,4,6-Tribromophenol	70		10 - 142
Nitrobenzene-d5	56		44 - 110
Phenol-d5	57		10 - 132
Terphenyl-d14	66		24 - 135
2-Fluorobiphenyl (Surr)	57		38 - 110

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Client Sample ID: **DSP-1-092914 COMP**

Lab Sample ID: 240-42475-2 Date Sampled: 09/29/2014 1200
Client Matrix: Water Date Received: 09/30/2014 0730

625 Semivolatile Organic Compounds (GC/MS)

Analysis Method:	625	Analysis Batch:	240-151224	Instrument ID:	A4HP9
Prep Method:	625	Prep Batch:	240-150974	Lab File ID:	41012030.D
Dilution:	1.0			Initial Weight/Volume:	1020 mL
Analysis Date:	10/12/2014 2259	Run Type:	RE	Final Weight/Volume:	2 mL
Prep Date:	10/10/2014 0755			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Benzidine	2.4	U H	2.4	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorophenol	40		10 - 135
2,4,6-Tribromophenol	78		10 - 142
Nitrobenzene-d5	59		44 - 110
Phenol-d5	24		10 - 132
Terphenyl-d14	50		24 - 135
2-Fluorobiphenyl (Surr)	57		38 - 110

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Client Sample ID: **DSP-1-092914 COMP**

Lab Sample ID: 240-42475-2 Date Sampled: 09/29/2014 1200
Client Matrix: Water Date Received: 09/30/2014 0730

625 Dioxin Screen (GC/MS SIM)

Analysis Method:	625	Analysis Batch:	240-151199	Instrument ID:	A4HP9
Prep Method:	3520C	Prep Batch:	240-150090	Lab File ID:	41011037a.d
Dilution:	1.0			Initial Weight/Volume:	1020 mL
Analysis Date:	10/11/2014 2323			Final Weight/Volume:	0.4 mL
Prep Date:	10/04/2014 0812			Injection Volume:	1 uL

Analyte	Result (ng/uL)	Qualifier	MDL	RL
2,3,7,8-TCDD	NEG			

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Client Sample ID: **DSP-1-092914 COMP**

Lab Sample ID: 240-42475-2 Date Sampled: 09/29/2014 1200
Client Matrix: Water Date Received: 09/30/2014 0730

608 Organochlorine Pesticides in Water

Analysis Method:	608	Analysis Batch:	240-150213	Instrument ID:	A2HP3
Prep Method:	608	Prep Batch:	240-149492	Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	10/06/2014 1217			Injection Volume:	1 uL
Prep Date:	10/01/2014 0737			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aldrin	0.013	U	0.013	0.049
alpha-BHC	0.043	J	0.014	0.049
beta-BHC	0.013	U	0.013	0.049
delta-BHC	0.028	U	0.028	0.049
gamma-BHC (Lindane)	0.012	U	0.012	0.049
Chlordane (technical)	0.032	U	0.032	0.49
Chlordane (technical) Peak 1	0.032	U	0.032	0.49
Chlordane (technical) Peak 2	0.032	U	0.032	0.49
Chlordane (technical) Peak 3	0.032	U	0.032	0.49
Chlordane (technical) Peak 4	0.032	U	0.032	0.49
4,4'-DDD	0.017	U	0.017	0.049
4,4'-DDE	0.0087	U	0.0087	0.049
4,4'-DDT	0.026	J p	0.014	0.049
Dieldrin	0.013	U	0.013	0.049
Endosulfan I	0.016	U	0.016	0.049
Endosulfan II	0.015	U	0.015	0.049
Endosulfan sulfate	0.011	U	0.011	0.049
Endrin	0.012	U	0.012	0.049
Endrin aldehyde	0.0078	U	0.0078	0.049
Heptachlor	0.0049	U	0.0049	0.049
Heptachlor epoxide	0.014	U	0.014	0.049
Toxaphene	0.19	U	0.19	1.9
Toxaphene Peak 1	0.19	U	0.19	1.9
Toxaphene Peak 2	0.19	U	0.19	1.9
Toxaphene Peak 3	0.19	U	0.19	1.9
Toxaphene Peak 4	0.19	U	0.19	1.9
Toxaphene Peak 5	0.19	U	0.19	1.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	93		10 - 151
Tetrachloro-m-xylene	76		10 - 151

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Client Sample ID: **DSP-1-092914 COMP**

Lab Sample ID: 240-42475-2 Date Sampled: 09/29/2014 1200
Client Matrix: Water Date Received: 09/30/2014 0730

608 Organochlorine Pesticides in Water

Analysis Method:	608	Analysis Batch:	240-150213	Instrument ID:	A2HP3
Prep Method:	608	Prep Batch:	240-149492	Initial Weight/Volume:	1030 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	10/06/2014 1217			Injection Volume:	1 uL
Prep Date:	10/01/2014 0737			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	94		10 - 151
Tetrachloro-m-xylene	76		10 - 151

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Client Sample ID: **DSP-1-092914 COMP**

Lab Sample ID: 240-42475-2 Date Sampled: 09/29/2014 1200
Client Matrix: Water Date Received: 09/30/2014 0730

608 Polychlorinated Biphenyls (PCBs) (GC)

Analysis Method:	608	Analysis Batch:	240-150074	Instrument ID:	A2HP11
Prep Method:	608	Prep Batch:	240-149713	Initial Weight/Volume:	1010 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	10/03/2014 2320			Injection Volume:	1 uL
Prep Date:	10/02/2014 0801			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aroclor-1016	0.11	U	0.11	0.25
Aroclor-1221	0.11	U	0.11	0.25
Aroclor-1232	0.18	U	0.18	0.25
Aroclor-1242	0.15	U	0.15	0.25
Aroclor-1248	0.15	U	0.15	0.25
Aroclor-1254	0.079	U	0.079	0.25
Aroclor-1260	0.094	U	0.094	0.25

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	93		10 - 114
Tetrachloro-m-xylene	89		15 - 131

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Client Sample ID: **DSP-1-092914 COMP**

Lab Sample ID: 240-42475-2 Date Sampled: 09/29/2014 1200
Client Matrix: Water Date Received: 09/30/2014 0730

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	240-149785	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-149504	Lab File ID:	I9100214A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/02/2014 1105			Final Weight/Volume:	50 mL
Prep Date:	10/01/2014 0752				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	0.92	U	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	1.9	U	1.9	25
Nickel	0.76	U	0.76	40
Lead	7.9	J	1.9	10
Zinc	15	J	9.6	50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	240-150057	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-149507	Lab File ID:	100314A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2014 1816			Final Weight/Volume:	50 mL
Prep Date:	10/01/2014 1415				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.090	U	0.090	0.20

General Chemistry

Client Sample ID: **DSP-1-092914 GRAB**

Lab Sample ID: 240-42475-1 Date Sampled: 09/29/2014 1200
Client Matrix: Water Date Received: 09/30/2014 0730

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM (Oil & Grease)	0.99	U	mg/L	0.99	4.8	1.0	1664A
Analysis Batch: 240-149978	Analysis Date: 10/03/2014 0900						
Prep Batch: 240-149955	Prep Date: 10/03/2014 0900						
SGT-HEM	1.1	U	mg/L	1.1	9.6	1.0	1664A
Analysis Batch: 240-149978	Analysis Date: 10/03/2014 0900						
Prep Batch: 240-149955	Prep Date: 10/03/2014 0900						
pH	8.05	HF	SU	0.100	0.100	1.0	4500 H+ B-2000
Analysis Batch: 240-149337	Analysis Date: 09/30/2014 0926						
Biochemical Oxygen Demand	2.0	U	mg/L	2.0	2.0	1.0	5210B-2001
Analysis Batch: 240-149475	Analysis Date: 10/01/2014 0620						
Chemical Oxygen Demand	5.5	J	mg/L	5.1	10	1.0	5220D-1997
Analysis Batch: 240-149630	Analysis Date: 10/01/2014 1643						
Total Suspended Solids	1.8	U	mg/L	1.8	4.0	1.0	SM 2540D
Analysis Batch: 240-149746	Analysis Date: 10/02/2014 0859						
Cyanide, Total	0.0020	U	mg/L	0.0020	0.010	1.0	SM 4500 CN E
Analysis Batch: 240-150489	Analysis Date: 10/07/2014 1218						
Prep Batch: 240-150388	Prep Date: 10/07/2014 0852						
Total Phosphorus as P	0.067	J	mg/L	0.050	0.10	1.0	SM4500 P E-1999
Analysis Batch: 240-150059	Analysis Date: 10/03/2014 1443						
Prep Batch: 240-149967	Prep Date: 10/03/2014 0911						
Nitrogen, Kjeldahl	2.3	J	mg/L	1.7	5.0	1.0	SM4500_NH3_C
Analysis Batch: 240-149911	Analysis Date: 10/03/2014 1423						
Prep Batch: 240-149842	Prep Date: 10/02/2014 1450						

Client: Tetra Tech, Inc.

Job Number: 240-42475-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec
240-42475-1	DSP-1-092914 GRAB	111	84
MB 240-149656/5		103	82
LCS 240-149656/6		106	89
190-5340-B-12 MS		103	84

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	80-120

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Surrogate Recovery Report

625 Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
240-42475-2	DSP-1-092914 COMP	52	57	56	57	70	66
240-42475-2 RE	DSP-1-092914 COMP RE	40	24	59	57	78	50
MB 240-150089/12-A		81	80	76	68	75	84
MB 240-150974/9-A		59	37	67	74	73	87
LCS 240-150089/13-A		76	77	76	70	91	76
LCS 240-150974/10-A		56	37	72	75	96	63

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	10-135
PHL = Phenol-d5	10-132
NBZ = Nitrobenzene-d5	44-110
FBP = 2-Fluorobiphenyl (Surr)	38-110
TBP = 2,4,6-Tribromophenol	10-142
TPH = Terphenyl-d14	24-135

Client: Tetra Tech, Inc.

Job Number: 240-42475-1

Surrogate Recovery Report

608 Organochlorine Pesticides in Water

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
240-42475-2	DSP-1-092914 COMP	76	76	94	93

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	10-151
DCB = DCB Decachlorobiphenyl	10-151

Client: Tetra Tech, Inc.

Job Number: 240-42475-1

Surrogate Recovery Report

608 Polychlorinated Biphenyls (PCBs) (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX1 %Rec	DCB1 %Rec
240-42475-2	DSP-1-092914 COMP	89	93
MB 240-149713/4-A		82	95
LCS 240-149713/5-A		88	86

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	15-131
DCB = DCB Decachlorobiphenyl	10-114

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-149656

Method: 624
Preparation: N/A

Lab Sample ID:	MB 240-149656/5	Analysis Batch:	240-149656	Instrument ID:	A3UX9
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX946183.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/01/2014 1818	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.17	U	0.17	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2-Chloroethyl vinyl ether	1.2	U	1.2	2.0
Acrolein	1.4	U	1.4	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.24	U	0.24	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	2.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	2.0
Chloroform	0.21	U	0.21	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.15	U	0.15	1.0
Ethylbenzene	0.23	U	0.23	1.0
Methylene Chloride	0.821	J	0.28	2.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	80 - 125
4-Bromofluorobenzene (Surr)	82	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	89	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	84	80 - 120

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-150089

Method: 625
Preparation: 625

Lab Sample ID:	MB 240-150089/12-A	Analysis Batch:	240-150544	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-150089	Lab File ID:	41008010.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/08/2014 1037	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	10/04/2014 0809			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,2,4-Trichlorobenzene	0.28	U	0.28	10
2,4,6-Trichlorophenol	0.80	U	0.80	10
2,4-Dichlorophenol	0.80	U	0.80	10
2,4-Dimethylphenol	0.80	U	0.80	10
2,4-Dinitrotoluene	0.27	U	0.27	10
2,6-Dinitrotoluene	0.80	U	0.80	10
2-Chloronaphthalene	0.10	U	0.10	10
2-Chlorophenol	0.29	U	0.29	10
2-Nitrophenol	0.28	U	0.28	10
3,3'-Dichlorobenzidine	0.37	U	0.37	10
4,6-Dinitro-2-methylphenol	2.4	U	2.4	50
4-Bromophenyl phenyl ether	0.80	U	0.80	10
4-Chlorophenyl phenyl ether	0.30	U	0.30	10
4-Nitrophenol	2.4	U	2.4	50
Acenaphthene	0.10	U	0.10	10
Acenaphthylene	0.10	U	0.10	10
Anthracene	0.10	U	0.10	10
Benzidine	2.4	U	2.4	5.0
Benzo[a]anthracene	0.10	U	0.10	10
Benzo[a]pyrene	0.10	U	0.10	10
Benzo[b]fluoranthene	0.10	U	0.10	10
Benzo[g,h,i]perylene	0.10	U	0.10	10
Benzo[k]fluoranthene	0.10	U	0.10	10
Bis(2-chloroethoxy)methane	0.32	U	0.32	10
Bis(2-chloroethyl)ether	0.10	U	0.10	10
Bis(2-ethylhexyl) phthalate	1.7	U	1.7	10
2,2'-oxybis[1-chloropropane]	0.40	U	0.40	10
Butyl benzyl phthalate	0.80	U	0.80	10
Chrysene	0.10	U	0.10	10
Dibenz(a,h)anthracene	0.10	U	0.10	10
Diethyl phthalate	0.60	U	0.60	10
Dimethyl phthalate	0.29	U	0.29	10
Di-n-butyl phthalate	1.7	U	1.7	10
Di-n-octyl phthalate	0.80	U	0.80	10
Fluoranthene	0.10	U	0.10	10
Fluorene	0.10	U	0.10	10
Hexachlorobenzene	0.10	U	0.10	10
Hexachlorobutadiene	0.27	U	0.27	10
Hexachlorocyclopentadiene	0.24	U	0.24	10
Hexachloroethane	0.80	U	0.80	10
Indeno[1,2,3-cd]pyrene	0.10	U	0.10	10
Isophorone	0.27	U	0.27	10
Naphthalene	0.10	U	0.10	10
Nitrobenzene	0.040	U	0.040	10
N-Nitrosodimethylamine	0.31	U	0.31	1.0

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-150089

Method: 625
Preparation: 625

Lab Sample ID:	MB 240-150089/12-A	Analysis Batch:	240-150544	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-150089	Lab File ID:	41008010.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/08/2014 1037	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	10/04/2014 0809			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
N-Nitrosodi-n-propylamine	0.80	U	0.80	10
N-Nitrosodiphenylamine	0.31	U	0.31	10
4-Chloro-3-methylphenol	0.80	U	0.80	10
Pentachlorophenol	2.4	U	2.4	10
Phenanthrene	0.10	U	0.10	10
Phenol	0.60	U	0.60	10
Pyrene	0.10	U	0.10	10
1,2-Diphenylhydrazine	0.29	U	0.29	1.0

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	81	10 - 135
2,4,6-Tribromophenol	75	10 - 142
Nitrobenzene-d5	76	44 - 110
Phenol-d5	80	10 - 132
Terphenyl-d14	84	24 - 135
2-Fluorobiphenyl (Surr)	68	38 - 110

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Lab Control Sample - Batch: 240-150089

Method: 625
Preparation: 625

Lab Sample ID:	LCS 240-150089/13-A	Analysis Batch:	240-150544	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-150089	Lab File ID:	41008011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/08/2014 1102	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	10/04/2014 0809			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2,4-Trichlorobenzene	20.0	13.6	68	44 - 142	
2,4,6-Trichlorophenol	20.0	15.8	79	37 - 144	
2,4-Dichlorophenol	20.0	15.5	77	39 - 135	
2,4-Dimethylphenol	20.0	12.7	64	32 - 119	
2,4-Dinitrotoluene	20.0	19.0	95	39 - 139	
2,6-Dinitrotoluene	20.0	17.9	89	50 - 158	
2-Chloronaphthalene	20.0	14.0	70	60 - 118	
2-Chlorophenol	20.0	15.7	79	23 - 134	
2-Nitrophenol	20.0	16.2	81	29 - 182	
3,3'-Dichlorobenzidine	40.0	32.6	82	0 - 262	
4,6-Dinitro-2-methylphenol	40.0	40.1	100	0 - 181	J
4-Bromophenyl phenyl ether	20.0	16.2	81	53 - 127	
4-Chlorophenyl phenyl ether	20.0	16.4	82	25 - 158	
4-Nitrophenol	40.0	38.6	96	0 - 132	J
Acenaphthene	20.0	14.8	74	47 - 145	
Acenaphthylene	20.0	14.0	70	33 - 145	
Anthracene	20.0	14.9	75	27 - 133	
Benzidine	40.0	2.4	4	10 - 120	U *
Benzo[a]anthracene	20.0	14.5	72	33 - 143	
Benzo[a]pyrene	20.0	14.8	74	17 - 163	
Benzo[b]fluoranthene	20.0	14.8	74	24 - 159	
Benzo[g,h,i]perylene	20.0	15.9	80	0 - 219	
Benzo[k]fluoranthene	20.0	15.3	77	11 - 162	
Bis(2-chloroethoxy)methane	20.0	15.4	77	33 - 184	
Bis(2-chloroethyl)ether	20.0	15.0	75	12 - 158	
Bis(2-ethylhexyl) phthalate	20.0	17.3	86	8 - 158	
2,2'-oxybis[1-chloropropane]	20.0	14.7	74	36 - 166	
Butyl benzyl phthalate	20.0	8.44	42	0 - 152	J
Chrysene	20.0	14.6	73	17 - 168	
Dibenz(a,h)anthracene	20.0	15.8	79	0 - 227	
Diethyl phthalate	20.0	5.37	27	0 - 114	J
Dimethyl phthalate	20.0	1.77	9	0 - 112	J
Di-n-butyl phthalate	20.0	10.5	52	1 - 118	
Di-n-octyl phthalate	20.0	16.6	83	4 - 146	
Fluoranthene	20.0	15.3	77	26 - 137	
Fluorene	20.0	16.2	81	59 - 121	
Hexachlorobenzene	20.0	15.9	79	0 - 152	
Hexachlorobutadiene	20.0	12.1	61	24 - 116	
Hexachlorocyclopentadiene	20.0	5.73	29	4 - 120	J
Hexachloroethane	20.0	12.1	61	40 - 113	
Indeno[1,2,3-cd]pyrene	20.0	15.8	79	0 - 171	
Isophorone	20.0	15.3	76	21 - 196	
Naphthalene	20.0	14.0	70	21 - 133	
Nitrobenzene	20.0	15.5	78	35 - 180	
N-Nitrosodimethylamine	20.0	15.9	79	10 - 110	
N-Nitrosodi-n-propylamine	20.0	16.7	84	0 - 230	

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Lab Control Sample - Batch: 240-150089

Method: 625
Preparation: 625

Lab Sample ID:	LCS 240-150089/13-A	Analysis Batch:	240-150544	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-150089	Lab File ID:	41008011.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/08/2014 1102	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	10/04/2014 0809			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
N-Nitrosodiphenylamine	40.0	31.7	79	38 - 120	
4-Chloro-3-methylphenol	20.0	16.6	83	22 - 147	
Pentachlorophenol	40.0	25.6	64	14 - 176	
Phenanthrene	20.0	15.0	75	54 - 120	
Phenol	20.0	15.7	79	5 - 112	
Pyrene	20.0	14.4	72	52 - 115	
1,2-Diphenylhydrazine	20.0	17.1	86	50 - 150	

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	76	10 - 135
2,4,6-Tribromophenol	91	10 - 142
Nitrobenzene-d5	76	44 - 110
Phenol-d5	77	10 - 132
Terphenyl-d14	76	24 - 135
2-Fluorobiphenyl (Surr)	70	38 - 110

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-150090

Method: 625
Preparation: 3520C

Lab Sample ID:	MB 240-150090/6-A	Analysis Batch:	240-151199	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-150090	Lab File ID:	41011034a.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/11/2014 2228	Units:	ng/uL	Final Weight/Volume:	0.4 mL
Prep Date:	10/04/2014 0812			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2,3,7,8-TCDD	NEG			

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-150974

Method: 625
Preparation: 625

Lab Sample ID:	MB 240-150974/9-A	Analysis Batch:	240-151224	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-150974	Lab File ID:	41012004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/12/2014 1157	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	10/10/2014 0755			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,2,4-Trichlorobenzene	0.28	U	0.28	10
2,4,6-Trichlorophenol	0.80	U	0.80	10
2,4-Dichlorophenol	0.80	U	0.80	10
2,4-Dimethylphenol	0.80	U	0.80	10
2,4-Dinitrotoluene	0.27	U	0.27	10
2,6-Dinitrotoluene	0.80	U	0.80	10
2-Chloronaphthalene	0.10	U	0.10	10
2-Chlorophenol	0.29	U	0.29	10
2-Nitrophenol	0.28	U	0.28	10
3,3'-Dichlorobenzidine	0.37	U	0.37	10
4,6-Dinitro-2-methylphenol	2.4	U	2.4	50
4-Bromophenyl phenyl ether	0.80	U	0.80	10
4-Chlorophenyl phenyl ether	0.30	U	0.30	10
4-Nitrophenol	2.4	U	2.4	50
Acenaphthene	0.10	U	0.10	10
Acenaphthylene	0.10	U	0.10	10
Anthracene	0.10	U	0.10	10
Benzidine	2.4	U	2.4	5.0
Benzo[a]anthracene	0.10	U	0.10	10
Benzo[a]pyrene	0.10	U	0.10	10
Benzo[b]fluoranthene	0.10	U	0.10	10
Benzo[g,h,i]perylene	0.10	U	0.10	10
Benzo[k]fluoranthene	0.10	U	0.10	10
Bis(2-chloroethoxy)methane	0.32	U	0.32	10
Bis(2-chloroethyl)ether	0.10	U	0.10	10
Bis(2-ethylhexyl) phthalate	2.83	J	1.7	10
2,2'-oxybis[1-chloropropane]	0.40	U	0.40	10
Butyl benzyl phthalate	0.80	U	0.80	10
Chrysene	0.10	U	0.10	10
Dibenz(a,h)anthracene	0.10	U	0.10	10
Diethyl phthalate	0.60	U	0.60	10
Dimethyl phthalate	0.29	U	0.29	10
Di-n-butyl phthalate	1.7	U	1.7	10
Di-n-octyl phthalate	0.80	U	0.80	10
Fluoranthene	0.10	U	0.10	10
Fluorene	0.10	U	0.10	10
Hexachlorobenzene	0.10	U	0.10	10
Hexachlorobutadiene	0.27	U	0.27	10
Hexachlorocyclopentadiene	0.24	U	0.24	10
Hexachloroethane	0.80	U	0.80	10
Indeno[1,2,3-cd]pyrene	0.10	U	0.10	10
Isophorone	0.27	U	0.27	10
Naphthalene	0.10	U	0.10	10
Nitrobenzene	0.040	U	0.040	10
N-Nitrosodimethylamine	0.31	U	0.31	1.0

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-150974

Method: 625
Preparation: 625

Lab Sample ID:	MB 240-150974/9-A	Analysis Batch:	240-151224	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-150974	Lab File ID:	41012004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/12/2014 1157	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	10/10/2014 0755			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
N-Nitrosodi-n-propylamine	0.80	U	0.80	10
N-Nitrosodiphenylamine	0.31	U	0.31	10
4-Chloro-3-methylphenol	0.80	U	0.80	10
Pentachlorophenol	2.4	U	2.4	10
Phenanthrene	0.10	U	0.10	10
Phenol	0.60	U	0.60	10
Pyrene	0.10	U	0.10	10
1,2-Diphenylhydrazine	0.29	U	0.29	1.0

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	59	10 - 135
2,4,6-Tribromophenol	73	10 - 142
Nitrobenzene-d5	67	44 - 110
Phenol-d5	37	10 - 132
Terphenyl-d14	87	24 - 135
2-Fluorobiphenyl (Surr)	74	38 - 110

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Lab Control Sample - Batch: 240-150974

Method: 625
Preparation: 625

Lab Sample ID:	LCS 240-150974/10-A	Analysis Batch:	240-151224	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-150974	Lab File ID:	41012005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/12/2014 1222	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	10/10/2014 0755			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2,4-Trichlorobenzene	20.0	13.5	68	44 - 142	
2,4,6-Trichlorophenol	20.0	15.8	79	37 - 144	
2,4-Dichlorophenol	20.0	15.1	76	39 - 135	
2,4-Dimethylphenol	20.0	14.1	71	32 - 119	
2,4-Dinitrotoluene	20.0	17.3	87	39 - 139	
2,6-Dinitrotoluene	20.0	16.7	83	50 - 158	
2-Chloronaphthalene	20.0	14.1	70	60 - 118	
2-Chlorophenol	20.0	14.9	75	23 - 134	
2-Nitrophenol	20.0	16.0	80	29 - 182	
3,3'-Dichlorobenzidine	40.0	36.5	91	0 - 262	
4,6-Dinitro-2-methylphenol	40.0	35.2	88	0 - 181	J
4-Bromophenyl phenyl ether	20.0	15.5	78	53 - 127	
4-Chlorophenyl phenyl ether	20.0	15.6	78	25 - 158	
4-Nitrophenol	40.0	17.4	44	0 - 132	J
Acenaphthene	20.0	14.6	73	47 - 145	
Acenaphthylene	20.0	14.7	74	33 - 145	
Anthracene	20.0	15.2	76	27 - 133	
Benzidine	40.0	40.3	101	10 - 120	
Benzo[a]anthracene	20.0	12.7	64	33 - 143	
Benzo[a]pyrene	20.0	11.7	59	17 - 163	
Benzo[b]fluoranthene	20.0	12.3	61	24 - 159	
Benzo[g,h,i]perylene	20.0	11.4	57	0 - 219	
Benzo[k]fluoranthene	20.0	11.5	57	11 - 162	
Bis(2-chloroethoxy)methane	20.0	15.0	75	33 - 184	
Bis(2-chloroethyl)ether	20.0	14.3	72	12 - 158	
Bis(2-ethylhexyl) phthalate	20.0	14.2	71	8 - 158	
2,2'-oxybis[1-chloropropane]	20.0	14.3	71	36 - 166	
Butyl benzyl phthalate	20.0	13.2	66	0 - 152	
Chrysene	20.0	13.2	66	17 - 168	
Dibenz(a,h)anthracene	20.0	11.6	58	0 - 227	
Diethyl phthalate	20.0	16.1	80	0 - 114	
Dimethyl phthalate	20.0	15.0	75	0 - 112	
Di-n-butyl phthalate	20.0	15.4	77	1 - 118	
Di-n-octyl phthalate	20.0	11.4	57	4 - 146	
Fluoranthene	20.0	15.0	75	26 - 137	
Fluorene	20.0	15.6	78	59 - 121	
Hexachlorobenzene	20.0	15.3	77	0 - 152	
Hexachlorobutadiene	20.0	13.0	65	24 - 116	
Hexachlorocyclopentadiene	20.0	9.14	46	4 - 120	J
Hexachloroethane	20.0	11.6	58	40 - 113	
Indeno[1,2,3-cd]pyrene	20.0	11.6	58	0 - 171	
Isophorone	20.0	14.6	73	21 - 196	
Naphthalene	20.0	13.7	69	21 - 133	
Nitrobenzene	20.0	14.2	71	35 - 180	
N-Nitrosodimethylamine	20.0	10.6	53	10 - 110	
N-Nitrosodi-n-propylamine	20.0	14.5	72	0 - 230	

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Lab Control Sample - Batch: 240-150974

Method: 625
Preparation: 625

Lab Sample ID:	LCS 240-150974/10-A	Analysis Batch:	240-151224	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-150974	Lab File ID:	41012005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/12/2014 1222	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	10/10/2014 0755			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
N-Nitrosodiphenylamine	40.0	31.8	80	38 - 120	
4-Chloro-3-methylphenol	20.0	15.1	75	22 - 147	
Pentachlorophenol	40.0	22.0	55	14 - 176	
Phenanthrene	20.0	15.0	75	54 - 120	
Phenol	20.0	7.46	37	5 - 112	J
Pyrene	20.0	14.6	73	52 - 115	
1,2-Diphenylhydrazine	20.0	14.6	73	50 - 150	

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	56	10 - 135
2,4,6-Tribromophenol	96	10 - 142
Nitrobenzene-d5	72	44 - 110
Phenol-d5	37	10 - 132
Terphenyl-d14	63	24 - 135
2-Fluorobiphenyl (Surr)	75	38 - 110

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-149713

Method: 608
Preparation: 608

Lab Sample ID:	MB 240-149713/4-A	Analysis Batch:	240-150074	Instrument ID:	A2HP11
Client Matrix:	Water	Prep Batch:	240-149713	Lab File ID:	P1100022.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/03/2014 2334	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 0801			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor-1016	0.11	U	0.11	0.25
Aroclor-1221	0.11	U	0.11	0.25
Aroclor-1232	0.18	U	0.18	0.25
Aroclor-1242	0.15	U	0.15	0.25
Aroclor-1248	0.15	U	0.15	0.25
Aroclor-1254	0.080	U	0.080	0.25
Aroclor-1260	0.095	U	0.095	0.25

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	95	10 - 114
Tetrachloro-m-xylene	82	15 - 131

Lab Control Sample - Batch: 240-149713

Method: 608
Preparation: 608

Lab Sample ID:	LCS 240-149713/5-A	Analysis Batch:	240-150074	Instrument ID:	A2HP11
Client Matrix:	Water	Prep Batch:	240-149713	Lab File ID:	P1100023.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/03/2014 2348	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 0801			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	5.00	5.09	102	50 - 114	
Aroclor-1260	5.00	4.91	98	8 - 127	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	86	10 - 114
Tetrachloro-m-xylene	88	15 - 131

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-149504

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 240-149504/1-A	Analysis Batch:	240-149785	Instrument ID:	I9
Client Matrix:	Water	Prep Batch:	240-149504	Lab File ID:	I9100214A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/02/2014 1057	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	10/01/2014 0752				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Silver	0.92	U	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	1.9	U	1.9	25
Nickel	0.76	U	0.76	40
Lead	1.9	U	1.9	10
Zinc	9.6	U	9.6	50

Lab Control Sample - Batch: 240-149504

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 240-149504/2-A	Analysis Batch:	240-149785	Instrument ID:	I9
Client Matrix:	Water	Prep Batch:	240-149504	Lab File ID:	I9100214A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/02/2014 1101	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	10/01/2014 0752				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	54.1	108	80 - 120	
Arsenic	2000	2020	101	80 - 120	
Barium	2000	1970	98	80 - 120	
Beryllium	50.0	45.1	90	80 - 120	
Cadmium	50.0	53.8	108	80 - 120	
Chromium	200	196	98	80 - 120	
Copper	250	263	105	80 - 120	
Manganese	500	464	93	80 - 120	
Nickel	500	482	96	80 - 120	
Lead	500	479	96	80 - 120	
Zinc	500	474	95	80 - 120	
Antimony	500	539	108	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-149507

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 240-149507/1-A	Analysis Batch:	240-150057	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-149507	Lab File ID:	100314A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2014 1804	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	10/01/2014 1415				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.090	U	0.090	0.20

Lab Control Sample - Batch: 240-149507

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 240-149507/2-A	Analysis Batch:	240-150057	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-149507	Lab File ID:	100314A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2014 1806	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	10/01/2014 1415				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	4.81	96	81 - 123	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149507

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	240-42491-G-1-E MS	Analysis Batch:	240-150057	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-149507	Lab File ID:	100314A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2014 1811			Final Weight/Volume:	50 mL
Prep Date:	10/01/2014 1415				
Leach Date:	N/A				

MSD Lab Sample ID:	240-42491-G-1-F MSD	Analysis Batch:	240-150057	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-149507	Lab File ID:	100314A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2014 1812			Final Weight/Volume:	50 mL
Prep Date:	10/01/2014 1415				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	95	100	69 - 134	5	20		

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149507

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	240-42491-G-1-E MS	Units:	ug/L	MSD Lab Sample ID:	240-42491-G-1-F MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/03/2014 1811			Analysis Date:	10/03/2014 1812
Prep Date:	10/01/2014 1415			Prep Date:	10/01/2014 1415
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.090	U	1.00	1.00	0.951	1.00

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-149955

Method: 1664A
Preparation: 1664A

Lab Sample ID:	MB 240-149955/1-A	Analysis Batch:	240-149978	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-149955	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/03/2014 0900	Units:	mg/L	Final Weight/Volume:	1000 mL
Prep Date:	10/03/2014 0900				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
HEM (Oil & Grease)	1.0	U	1.0	5.0

Lab Control Sample - Batch: 240-149955

Method: 1664A
Preparation: 1664A

Lab Sample ID:	LCS 240-149955/2-A	Analysis Batch:	240-149978	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-149955	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	10/03/2014 0900	Units:	mg/L	Final Weight/Volume:	1000 mL
Prep Date:	10/03/2014 0900				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil & Grease)	40.0	39.2	98	78 - 114	

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Lab Control Sample - Batch: 240-149337

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-149337/2	Analysis Batch:	240-149337	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/30/2014 0918	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	7.09	7.210	102	97 - 103	

Duplicate - Batch: 240-149337

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-42469-Q-1 DU	Analysis Batch:	240-149337	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/30/2014 0919	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.47	7.450	0.3	20	

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Unseeded Control Blank - Batch: 240-149475

Method: 5210B-2001
Preparation: N/A

Lab Sample ID:	USB 240-149475/1	Analysis Batch:	240-149475	Instrument ID:	Bugsy
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	300 mL
Analysis Date:	10/01/2014 0601	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Biochemical Oxygen Demand	2.0	U	2.0	2.0

Seeded Control Blank - Batch: 240-149475

Method: 5210B-2001
Preparation: N/A

Lab Sample ID:	SCB 240-149475/2	Analysis Batch:	240-149475	Instrument ID:	Bugsy
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	300 mL
Analysis Date:	10/01/2014 0603	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Biochemical Oxygen Demand	2.0	U s	2.0	2.0

Lab Control Sample - Batch: 240-149475

Method: 5210B-2001
Preparation: N/A

Lab Sample ID:	LCS 240-149475/3	Analysis Batch:	240-149475	Instrument ID:	Bugsy
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	300 mL
Analysis Date:	10/01/2014 0607	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	<-51.83	NaN	85 - 115	

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-149630

Method: 5220D-1997
Preparation: N/A

Lab Sample ID:	MB 240-149630/9	Analysis Batch:	240-149630	Instrument ID:	ERNIE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2.0 mL
Analysis Date:	10/01/2014 1628	Units:	mg/L	Final Weight/Volume:	2.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chemical Oxygen Demand	5.1	U	5.1	10

Lab Control Sample - Batch: 240-149630

Method: 5220D-1997
Preparation: N/A

Lab Sample ID:	LCS 240-149630/10	Analysis Batch:	240-149630	Instrument ID:	ERNIE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	2.0 mL
Analysis Date:	10/01/2014 1628	Units:	mg/L	Final Weight/Volume:	2.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chemical Oxygen Demand	68.0	62.6	92	90 - 110	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149630

Method: 5220D-1997
Preparation: N/A

MS Lab Sample ID:	240-42475-1	Analysis Batch:	240-149630	Instrument ID:	ERNIE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.9 mL
Analysis Date:	10/01/2014 1644			Final Weight/Volume:	2.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	240-42475-1	Analysis Batch:	240-149630	Instrument ID:	ERNIE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.9 mL
Analysis Date:	10/01/2014 1644			Final Weight/Volume:	2.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chemical Oxygen Demand	90	92	90 - 110	1	20		

Client: Tetra Tech, Inc.

Job Number: 240-42475-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149630

Method: 5220D-1997
Preparation: N/A

MS Lab Sample ID:	240-42475-1	Units:	mg/L	MSD Lab Sample ID:	240-42475-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/01/2014 1644			Analysis Date:	10/01/2014 1644
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chemical Oxygen Demand	5.5	J	50.0	50.0	50.7	51.3

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-149746

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 240-149746/1	Analysis Batch:	240-149746	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	10/02/2014 0859	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	1.8	U	1.8	4.0

Lab Control Sample - Batch: 240-149746

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	LCS 240-149746/2	Analysis Batch:	240-149746	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	10/02/2014 0859	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	99.3	96.0	97	73 - 113	

Duplicate - Batch: 240-149746

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	240-42538-F-3 DU	Analysis Batch:	240-149746	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	10/02/2014 0859	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	56	52.0	7	10	

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-150388

Method: SM 4500 CN E
Preparation: Distill/CN

Lab Sample ID:	MB 240-150388/1-A	Analysis Batch:	240-150489	Instrument ID:	SAURON
Client Matrix:	Water	Prep Batch:	240-150388	Lab File ID:	100714 cn A.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/07/2014 1212	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	10/07/2014 0852				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cyanide, Total	0.0020	U	0.0020	0.010

Lab Control Sample - Batch: 240-150388

Method: SM 4500 CN E
Preparation: Distill/CN

Lab Sample ID:	LCS 240-150388/2-A	Analysis Batch:	240-150489	Instrument ID:	SAURON
Client Matrix:	Water	Prep Batch:	240-150388	Lab File ID:	100714 cn A.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/07/2014 1253	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	10/07/2014 0852				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.0921	0.0649	70	69 - 118	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-150388

Method: SM 4500 CN E
Preparation: Distill/CN

MS Lab Sample ID:	240-42411-G-1-B MS	Analysis Batch:	240-150489	Instrument ID:	SAURON
Client Matrix:	Water	Prep Batch:	240-150388	Lab File ID:	100714 cn A.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/07/2014 1213			Final Weight/Volume:	25 mL
Prep Date:	10/07/2014 0852				
Leach Date:	N/A				

MSD Lab Sample ID:	240-42411-G-1-C MSD	Analysis Batch:	240-150489	Instrument ID:	SAURON
Client Matrix:	Water	Prep Batch:	240-150388	Lab File ID:	100714 cn A.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/07/2014 1213			Final Weight/Volume:	25 mL
Prep Date:	10/07/2014 0852				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cyanide, Total	108	106	42 - 140	1	20		

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-150388

Method: SM 4500 CN E
Preparation: Distill/CN

MS Lab Sample ID:	240-42411-G-1-B MS	Units:	mg/L	MSD Lab Sample ID:	240-42411-G-1-C MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/07/2014 1213			Analysis Date:	10/07/2014 1213
Prep Date:	10/07/2014 0852			Prep Date:	10/07/2014 0852
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide, Total	0.0020	U	0.0400	0.0400	0.0432	0.0426

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-149967

Method: SM4500 P E-1999
Preparation: 365.2/365.3/365

Lab Sample ID:	MB 240-149967/10-A	Analysis Batch:	240-150059	Instrument ID:	BARNEY
Client Matrix:	Water	Prep Batch:	240-149967	Lab File ID:	TP-100314.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2014 1443	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	10/03/2014 0911				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Phosphorus as P	0.050	U	0.050	0.10

Lab Control Sample - Batch: 240-149967

Method: SM4500 P E-1999
Preparation: 365.2/365.3/365

Lab Sample ID:	LCS 240-149967/11-A	Analysis Batch:	240-150059	Instrument ID:	BARNEY
Client Matrix:	Water	Prep Batch:	240-149967	Lab File ID:	TP-100314.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2014 1443	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	10/03/2014 0911				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as P	0.313	0.325	104	53 - 134	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149967

Method: SM4500 P E-1999
Preparation: 365.2/365.3/365

MS Lab Sample ID:	240-42554-A-1-B MS	Analysis Batch:	240-150059	Instrument ID:	BARNEY
Client Matrix:	Water	Prep Batch:	240-149967	Lab File ID:	TP-100314.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2014 1443			Final Weight/Volume:	50 mL
Prep Date:	10/03/2014 0911				
Leach Date:	N/A				

MSD Lab Sample ID:	240-42554-A-1-C MSD	Analysis Batch:	240-150059	Instrument ID:	BARNEY
Client Matrix:	Water	Prep Batch:	240-149967	Lab File ID:	TP-100314.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/03/2014 1443			Final Weight/Volume:	50 mL
Prep Date:	10/03/2014 0911				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Phosphorus as P	116	110	10 - 199	5	20		

Client: Tetra Tech, Inc.

Job Number: 240-42475-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149967

Method: SM4500 P E-1999
Preparation: 365.2/365.3/365

MS Lab Sample ID:	240-42554-A-1-B MS	Units:	mg/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	10/03/2014 1443		
Prep Date:	10/03/2014 0911		
Leach Date:	N/A		

MSD Lab Sample ID:	240-42554-A-1-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	10/03/2014 1443
Prep Date:	10/03/2014 0911
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Total Phosphorus as P	0.050	U	0.500	0.500	0.578	0.550

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Method Blank - Batch: 240-149842

Method: SM4500_NH3_C
Preparation: SM4500Norg_C

Lab Sample ID:	MB 240-149842/1-A	Analysis Batch:	240-149911	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-149842	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	10/03/2014 1420	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	10/02/2014 1450				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrogen, Kjeldahl	1.7	U	1.7	5.0

Lab Control Sample - Batch: 240-149842

Method: SM4500_NH3_C
Preparation: SM4500Norg_C

Lab Sample ID:	LCS 240-149842/2-A	Analysis Batch:	240-149911	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-149842	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	10/03/2014 1421	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	10/02/2014 1450				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Kjeldahl	24.9	20.4	82	65 - 144	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149842

Method: SM4500_NH3_C
Preparation: SM4500Norg_C

MS Lab Sample ID:	240-42475-1	Analysis Batch:	240-149911	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-149842	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	10/03/2014 1424			Final Weight/Volume:	25 mL
Prep Date:	10/02/2014 1450				
Leach Date:	N/A				

MSD Lab Sample ID:	240-42475-1	Analysis Batch:	240-149911	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-149842	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	10/03/2014 1425			Final Weight/Volume:	25 mL
Prep Date:	10/02/2014 1450				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrogen, Kjeldahl	79	93	10 - 200	14	20		

Client: Tetra Tech, Inc.

Job Number: 240-42475-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-149842

Method: SM4500_NH3_C
Preparation: SM4500Norg_C

MS Lab Sample ID:	240-42475-1	Units:	mg/L	MSD Lab Sample ID:	240-42475-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/03/2014 1424			Analysis Date:	10/03/2014 1425
Prep Date:	10/02/2014 1450			Prep Date:	10/02/2014 1450
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrogen, Kjeldahl	2.3	J	20.0	20.0	18.1	20.9

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	X	Surrogate is outside control limits
	p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
Metals		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	s	Seeded Control Blank (SCB) Recovery High

Client: Tetra Tech, Inc. Job Number: 240-42475-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-149656					
LCS 240-149656/6	Lab Control Sample	T	Water	624	
MB 240-149656/5	Method Blank	T	Water	624	
190-5340-B-12 MS	Matrix Spike	T	Water	624	
240-42475-1	DSP-1-092914 GRAB	T	Water	624	
GC/MS Semi VOA					
Prep Batch: 240-150089					
LCS 240-150089/13-A	Lab Control Sample	T	Water	625	
MB 240-150089/12-A	Method Blank	T	Water	625	
240-42475-2	DSP-1-092914 COMP	T	Water	625	
Prep Batch: 240-150090					
MB 240-150090/6-A	Method Blank	T	Water	3520C	
240-42475-2	DSP-1-092914 COMP	T	Water	3520C	
Analysis Batch:240-150544					
LCS 240-150089/13-A	Lab Control Sample	T	Water	625	240-150089
MB 240-150089/12-A	Method Blank	T	Water	625	240-150089
240-42475-2	DSP-1-092914 COMP	T	Water	625	240-150089
Prep Batch: 240-150974					
LCS 240-150974/10-A	Lab Control Sample	T	Water	625	
MB 240-150974/9-A	Method Blank	T	Water	625	
240-42475-2RE	DSP-1-092914 COMP	T	Water	625	
Analysis Batch:240-151199					
MB 240-150090/6-A	Method Blank	T	Water	625	240-150090
240-42475-2	DSP-1-092914 COMP	T	Water	625	240-150090
Analysis Batch:240-151224					
LCS 240-150974/10-A	Lab Control Sample	T	Water	625	240-150974
MB 240-150974/9-A	Method Blank	T	Water	625	240-150974
240-42475-2RE	DSP-1-092914 COMP	T	Water	625	240-150974

Report Basis
T = Total

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-42475-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 240-149492					
240-42475-2	DSP-1-092914 COMP	T	Water	608	
Prep Batch: 240-149713					
LCS 240-149713/5-A	Lab Control Sample	T	Water	608	
MB 240-149713/4-A	Method Blank	T	Water	608	
240-42475-2	DSP-1-092914 COMP	T	Water	608	
Analysis Batch:240-150074					
LCS 240-149713/5-A	Lab Control Sample	T	Water	608	240-149713
MB 240-149713/4-A	Method Blank	T	Water	608	240-149713
240-42475-2	DSP-1-092914 COMP	T	Water	608	240-149713
Analysis Batch:240-150213					
240-42475-2	DSP-1-092914 COMP	T	Water	608	240-149492

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-42475-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-149504					
LCS 240-149504/2-A	Lab Control Sample	R	Water	3005A	
MB 240-149504/1-A	Method Blank	R	Water	3005A	
240-42475-2	DSP-1-092914 COMP	R	Water	3005A	
Prep Batch: 240-149507					
LCS 240-149507/2-A	Lab Control Sample	T	Water	7470A	
MB 240-149507/1-A	Method Blank	T	Water	7470A	
240-42475-2	DSP-1-092914 COMP	T	Water	7470A	
240-42491-G-1-E MS	Matrix Spike	T	Water	7470A	
240-42491-G-1-F MSD	Matrix Spike Duplicate	T	Water	7470A	
Analysis Batch:240-149785					
LCS 240-149504/2-A	Lab Control Sample	R	Water	6010C	240-149504
MB 240-149504/1-A	Method Blank	R	Water	6010C	240-149504
240-42475-2	DSP-1-092914 COMP	R	Water	6010C	240-149504
Analysis Batch:240-150057					
LCS 240-149507/2-A	Lab Control Sample	T	Water	7470A	240-149507
MB 240-149507/1-A	Method Blank	T	Water	7470A	240-149507
240-42475-2	DSP-1-092914 COMP	T	Water	7470A	240-149507
240-42491-G-1-E MS	Matrix Spike	T	Water	7470A	240-149507
240-42491-G-1-F MSD	Matrix Spike Duplicate	T	Water	7470A	240-149507

Report Basis

R = Total Recoverable

T = Total

Client: Tetra Tech, Inc. Job Number: 240-42475-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-149337					
LCS 240-149337/2	Lab Control Sample	T	Water	4500 H+ B-2000	
240-42469-Q-1 DU	Duplicate	T	Water	4500 H+ B-2000	
240-42475-1	DSP-1-092914 GRAB	T	Water	4500 H+ B-2000	
Analysis Batch:240-149475					
LCS 240-149475/3	Lab Control Sample	T	Water	5210B-2001	
SCB 240-149475/2	Seeded Control Blank	T	Water	5210B-2001	
USB 240-149475/1	Unseeded Control Blank	T	Water	5210B-2001	
240-42475-1	DSP-1-092914 GRAB	T	Water	5210B-2001	
Analysis Batch:240-149630					
LCS 240-149630/10	Lab Control Sample	T	Water	5220D-1997	
MB 240-149630/9	Method Blank	T	Water	5220D-1997	
240-42475-1	DSP-1-092914 GRAB	T	Water	5220D-1997	
240-42475-1MS	Matrix Spike	T	Water	5220D-1997	
240-42475-1MSD	Matrix Spike Duplicate	T	Water	5220D-1997	
Analysis Batch:240-149746					
LCS 240-149746/2	Lab Control Sample	T	Water	SM 2540D	
MB 240-149746/1	Method Blank	T	Water	SM 2540D	
240-42475-1	DSP-1-092914 GRAB	T	Water	SM 2540D	
240-42538-F-3 DU	Duplicate	T	Water	SM 2540D	
Prep Batch: 240-149842					
LCS 240-149842/2-A	Lab Control Sample	T	Water	SM4500Norg_C	
MB 240-149842/1-A	Method Blank	T	Water	SM4500Norg_C	
240-42475-1	DSP-1-092914 GRAB	T	Water	SM4500Norg_C	
240-42475-1MS	Matrix Spike	T	Water	SM4500Norg_C	
240-42475-1MSD	Matrix Spike Duplicate	T	Water	SM4500Norg_C	
Analysis Batch:240-149911					
LCS 240-149842/2-A	Lab Control Sample	T	Water	SM4500_NH3_C	240-149842
MB 240-149842/1-A	Method Blank	T	Water	SM4500_NH3_C	240-149842
240-42475-1	DSP-1-092914 GRAB	T	Water	SM4500_NH3_C	240-149842
240-42475-1MS	Matrix Spike	T	Water	SM4500_NH3_C	240-149842
240-42475-1MSD	Matrix Spike Duplicate	T	Water	SM4500_NH3_C	240-149842
Prep Batch: 240-149955					
LCS 240-149955/2-A	Lab Control Sample	T	Water	1664A	
MB 240-149955/1-A	Method Blank	T	Water	1664A	
240-42475-1	DSP-1-092914 GRAB	T	Water	1664A	

Client: Tetra Tech, Inc. Job Number: 240-42475-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 240-149967					
LCS 240-149967/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-149967/10-A	Method Blank	T	Water	365.2/365.3/365	
240-42475-1	DSP-1-092914 GRAB	T	Water	365.2/365.3/365	
240-42554-A-1-B MS	Matrix Spike	T	Water	365.2/365.3/365	
240-42554-A-1-C MSD	Matrix Spike Duplicate	T	Water	365.2/365.3/365	
Analysis Batch:240-149978					
LCS 240-149955/2-A	Lab Control Sample	T	Water	1664A	240-149955
MB 240-149955/1-A	Method Blank	T	Water	1664A	240-149955
240-42475-1	DSP-1-092914 GRAB	T	Water	1664A	240-149955
Analysis Batch:240-150059					
LCS 240-149967/11-A	Lab Control Sample	T	Water	SM4500 P E-1999	240-149967
MB 240-149967/10-A	Method Blank	T	Water	SM4500 P E-1999	240-149967
240-42475-1	DSP-1-092914 GRAB	T	Water	SM4500 P E-1999	240-149967
240-42554-A-1-B MS	Matrix Spike	T	Water	SM4500 P E-1999	240-149967
240-42554-A-1-C MSD	Matrix Spike Duplicate	T	Water	SM4500 P E-1999	240-149967
Prep Batch: 240-150388					
LCS 240-150388/2-A	Lab Control Sample	T	Water	Distill/CN	
MB 240-150388/1-A	Method Blank	T	Water	Distill/CN	
240-42411-G-1-B MS	Matrix Spike	T	Water	Distill/CN	
240-42411-G-1-C MSD	Matrix Spike Duplicate	T	Water	Distill/CN	
240-42475-1	DSP-1-092914 GRAB	T	Water	Distill/CN	
Analysis Batch:240-150489					
LCS 240-150388/2-A	Lab Control Sample	T	Water	SM 4500 CN E	240-150388
MB 240-150388/1-A	Method Blank	T	Water	SM 4500 CN E	240-150388
240-42411-G-1-B MS	Matrix Spike	T	Water	SM 4500 CN E	240-150388
240-42411-G-1-C MSD	Matrix Spike Duplicate	T	Water	SM 4500 CN E	240-150388
240-42475-1	DSP-1-092914 GRAB	T	Water	SM 4500 CN E	240-150388

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Laboratory Chronicle

Lab ID: 240-42475-1 **Client ID: DSP-1-092914 GRAB**

Sample Date/Time: 09/29/2014 12:00 Received Date/Time: 09/30/2014 07:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-42475-A-1		240-149656		10/01/2014 21:20	1	TAL CAN	TJL1
P:1664A	240-42475-G-1-A		240-149978	240-149955	10/03/2014 09:00	1	TAL CAN	NJE
A:1664A	240-42475-G-1-A		240-149978	240-149955	10/03/2014 09:00	1	TAL CAN	NJE
A:4500 H+ B-2000	240-42475-E-1		240-149337		09/30/2014 09:26	1	TAL CAN	NJE
A:5210B-2001	240-42475-E-1		240-149475		10/01/2014 06:20	1	TAL CAN	LKG
A:5220D-1997	240-42475-F-1		240-149630		10/01/2014 16:43	1	TAL CAN	JAK
A:SM 2540D	240-42475-E-1		240-149746		10/02/2014 08:59	1	TAL CAN	AS1
P:Distill/CN	240-42475-D-1-A		240-150489	240-150388	10/07/2014 08:52	1	TAL CAN	SEM
A:SM 4500 CN E	240-42475-D-1-A		240-150489	240-150388	10/07/2014 12:18	1	TAL CAN	SEM
P:365.2/365.3/365	240-42475-F-1-D		240-150059	240-149967	10/03/2014 09:11	1	TAL CAN	BLW
A:SM4500 P E-1999	240-42475-F-1-D		240-150059	240-149967	10/03/2014 14:43	1	TAL CAN	BLW
P:SM4500Norg_C	240-42475-F-1-A		240-149911	240-149842	10/02/2014 14:50	1	TAL CAN	JAK
A:SM4500_NH3_C	240-42475-F-1-A		240-149911	240-149842	10/03/2014 14:23	1	TAL CAN	JAK

Lab ID: 240-42475-1 MS **Client ID: DSP-1-092914 GRAB**

Sample Date/Time: 09/29/2014 12:00 Received Date/Time: 09/30/2014 07:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:5220D-1997	240-42475-F-1 MS		240-149630		10/01/2014 16:44	1	TAL CAN	JAK
P:SM4500Norg_C	240-42475-F-1-B MS		240-149911	240-149842	10/02/2014 14:50	1	TAL CAN	JAK
A:SM4500_NH3_C	240-42475-F-1-B MS		240-149911	240-149842	10/03/2014 14:24	1	TAL CAN	JAK

Lab ID: 240-42475-1 MSD **Client ID: DSP-1-092914 GRAB**

Sample Date/Time: 09/29/2014 12:00 Received Date/Time: 09/30/2014 07:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:5220D-1997	240-42475-F-1 MSD		240-149630		10/01/2014 16:44	1	TAL CAN	JAK
P:SM4500Norg_C	240-42475-F-1-C MSD		240-149911	240-149842	10/02/2014 14:50	1	TAL CAN	JAK
A:SM4500_NH3_C	240-42475-F-1-C MSD		240-149911	240-149842	10/03/2014 14:25	1	TAL CAN	JAK

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Laboratory Chronicle

Lab ID: 240-42475-2 **Client ID:** DSP-1-092914 COMP

Sample Date/Time: 09/29/2014 12:00 Received Date/Time: 09/30/2014 07:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	240-42475-H-2-A		240-150544	240-150089	10/04/2014 08:09	1	TAL CAN	SDE
A:625	240-42475-H-2-A		240-150544	240-150089	10/08/2014 19:43	1	TAL CAN	MRU
P:3520C	240-42475-H-2-B		240-151199	240-150090	10/04/2014 08:12	1	TAL CAN	SDE
A:625	240-42475-H-2-B		240-151199	240-150090	10/11/2014 23:23	1	TAL CAN	MRU
P:625	240-42475-C-2-A	RE	240-151224	240-150974	10/10/2014 07:55	1	TAL CAN	JDR
A:625	240-42475-C-2-A	RE	240-151224	240-150974	10/12/2014 22:59	1	TAL CAN	MRU
P:608	240-42475-E-2-A		240-150074	240-149713	10/02/2014 08:01	1	TAL CAN	SDE
A:608	240-42475-E-2-A		240-150074	240-149713	10/03/2014 23:20	1	TAL CAN	KMG
P:608	240-42475-G-2-A		240-150213	240-149492	10/01/2014 07:37	1	TAL CAN	SDE
A:608	240-42475-G-2-A		240-150213	240-149492	10/06/2014 12:17	1	TAL CAN	BPM
P:3005A	240-42475-A-2-A		240-149785	240-149504	10/01/2014 07:52	1	TAL CAN	WAL
A:6010C	240-42475-A-2-A		240-149785	240-149504	10/02/2014 11:05	1	TAL CAN	ADS
P:7470A	240-42475-A-2-B		240-150057	240-149507	10/01/2014 14:15	1	TAL CAN	WAL
A:7470A	240-42475-A-2-B		240-150057	240-149507	10/03/2014 18:16	1	TAL CAN	AMM2

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-149656/5		240-149656		10/01/2014 18:18	1	TAL CAN	TJL1
P:625	MB 240-150089/12-A		240-150544	240-150089	10/04/2014 08:09	1	TAL CAN	SDE
A:625	MB 240-150089/12-A		240-150544	240-150089	10/08/2014 10:37	1	TAL CAN	MRU
P:3520C	MB 240-150090/6-A		240-151199	240-150090	10/04/2014 08:12	1	TAL CAN	SDE
A:625	MB 240-150090/6-A		240-151199	240-150090	10/11/2014 22:28	1	TAL CAN	MRU
P:625	MB 240-150974/9-A		240-151224	240-150974	10/10/2014 07:55	1	TAL CAN	JDR
A:625	MB 240-150974/9-A		240-151224	240-150974	10/12/2014 11:57	1	TAL CAN	MRU
P:608	MB 240-149713/4-A		240-150074	240-149713	10/02/2014 08:01	1	TAL CAN	SDE
A:608	MB 240-149713/4-A		240-150074	240-149713	10/03/2014 23:34	1	TAL CAN	KMG
P:3005A	MB 240-149504/1-A		240-149785	240-149504	10/01/2014 07:52	1	TAL CAN	WAL
A:6010C	MB 240-149504/1-A		240-149785	240-149504	10/02/2014 10:57	1	TAL CAN	ADS
P:7470A	MB 240-149507/1-A		240-150057	240-149507	10/01/2014 14:15	1	TAL CAN	WAL
A:7470A	MB 240-149507/1-A		240-150057	240-149507	10/03/2014 18:04	1	TAL CAN	AMM2
P:1664A	MB 240-149955/1-A		240-149978	240-149955	10/03/2014 09:00	1	TAL CAN	NJE
A:1664A	MB 240-149955/1-A		240-149978	240-149955	10/03/2014 09:00	1	TAL CAN	NJE
A:5220D-1997	MB 240-149630/9		240-149630		10/01/2014 16:28	1	TAL CAN	JAK
A:SM 2540D	MB 240-149746/1		240-149746		10/02/2014 08:59	1	TAL CAN	AS1
P:Distill/CN	MB 240-150388/1-A		240-150489	240-150388	10/07/2014 08:52	1	TAL CAN	SEM
A:SM 4500 CN E	MB 240-150388/1-A		240-150489	240-150388	10/07/2014 12:12	1	TAL CAN	SEM
P:365.2/365.3/365	MB 240-149967/10-A		240-150059	240-149967	10/03/2014 09:11	1	TAL CAN	BLW
A:SM4500 P E-1999	MB 240-149967/10-A		240-150059	240-149967	10/03/2014 14:43	1	TAL CAN	BLW
P:SM4500Norg_C	MB 240-149842/1-A		240-149911	240-149842	10/02/2014 14:50	1	TAL CAN	JAK
A:SM4500_NH3_C	MB 240-149842/1-A		240-149911	240-149842	10/03/2014 14:20	1	TAL CAN	JAK

Lab ID: USB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:5210B-2001	USB 240-149475/1		240-149475		10/01/2014 06:01	1	TAL CAN	LKG

Lab ID: SCB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:5210B-2001	SCB 240-149475/2		240-149475		10/01/2014 06:03	1	TAL CAN	LKG

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-149656/6		240-149656		10/01/2014 18:41	1	TAL CAN	TJL1
P:625	LCS 240-150089/13-A		240-150544	240-150089	10/04/2014 08:09	1	TAL CAN	SDE
A:625	LCS 240-150089/13-A		240-150544	240-150089	10/08/2014 11:02	1	TAL CAN	MRU
P:625	LCS 240-150974/10-A		240-151224	240-150974	10/10/2014 07:55	1	TAL CAN	JDR
A:625	LCS 240-150974/10-A		240-151224	240-150974	10/12/2014 12:22	1	TAL CAN	MRU
P:608	LCS 240-149713/5-A		240-150074	240-149713	10/02/2014 08:01	1	TAL CAN	SDE
A:608	LCS 240-149713/5-A		240-150074	240-149713	10/03/2014 23:48	1	TAL CAN	KMG
P:3005A	LCS 240-149504/2-A		240-149785	240-149504	10/01/2014 07:52	1	TAL CAN	WAL
A:6010C	LCS 240-149504/2-A		240-149785	240-149504	10/02/2014 11:01	1	TAL CAN	ADS
P:7470A	LCS 240-149507/2-A		240-150057	240-149507	10/01/2014 14:15	1	TAL CAN	WAL
A:7470A	LCS 240-149507/2-A		240-150057	240-149507	10/03/2014 18:06	1	TAL CAN	AMM2
P:1664A	LCS 240-149955/2-A		240-149978	240-149955	10/03/2014 09:00	1	TAL CAN	NJE
A:1664A	LCS 240-149955/2-A		240-149978	240-149955	10/03/2014 09:00	1	TAL CAN	NJE
A:4500 H+ B-2000	LCS 240-149337/2		240-149337		09/30/2014 09:18	1	TAL CAN	NJE
A:5210B-2001	LCS 240-149475/3		240-149475		10/01/2014 06:07	1	TAL CAN	LKG
A:5220D-1997	LCS 240-149630/10		240-149630		10/01/2014 16:28	2	TAL CAN	JAK
A:SM 2540D	LCS 240-149746/2		240-149746		10/02/2014 08:59	1	TAL CAN	AS1
P:Distill/CN	LCS 240-150388/2-A		240-150489	240-150388	10/07/2014 08:52	1	TAL CAN	SEM
A:SM 4500 CN E	LCS 240-150388/2-A		240-150489	240-150388	10/07/2014 12:53	1	TAL CAN	SEM
P:365.2/365.3/365	LCS 240-149967/11-A		240-150059	240-149967	10/03/2014 09:11	1	TAL CAN	BLW
A:SM4500 P E-1999	LCS 240-149967/11-A		240-150059	240-149967	10/03/2014 14:43	1	TAL CAN	BLW
P:SM4500Norg_C	LCS 240-149842/2-A		240-149911	240-149842	10/02/2014 14:50	1	TAL CAN	JAK
A:SM4500_NH3_C	LCS 240-149842/2-A		240-149911	240-149842	10/03/2014 14:21	1	TAL CAN	JAK

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 09/23/2014 13:30 Received Date/Time: 09/26/2014 08:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	190-5340-B-12 MS		240-149656		10/02/2014 02:33	1	TAL CAN	TJL1
P:7470A	240-42491-G-1-E MS		240-150057	240-149507	10/01/2014 14:15	1	TAL CAN	WAL
A:7470A	240-42491-G-1-E MS		240-150057	240-149507	10/03/2014 18:11	1	TAL CAN	AMM2
P:Distill/CN	240-42411-G-1-B MS		240-150489	240-150388	10/07/2014 08:52	1	TAL CAN	SEM
A:SM 4500 CN E	240-42411-G-1-B MS		240-150489	240-150388	10/07/2014 12:13	1	TAL CAN	SEM
P:365.2/365.3/365	240-42554-A-1-B MS		240-150059	240-149967	10/03/2014 09:11	1	TAL CAN	BLW
A:SM4500 P E-1999	240-42554-A-1-B MS		240-150059	240-149967	10/03/2014 14:43	1	TAL CAN	BLW

Client: Tetra Tech, Inc. Job Number: 240-42475-1

Laboratory Chronicle

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 09/29/2014 10:30 Received Date/Time: 09/30/2014 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	240-42491-G-1-F MSD		240-150057	240-149507	10/01/2014 14:15	1	TAL CAN	WAL
A:7470A	240-42491-G-1-F MSD		240-150057	240-149507	10/03/2014 18:12	1	TAL CAN	AMM2
P:Distill/CN	240-42411-G-1-C MSD		240-150489	240-150388	10/07/2014 08:52	1	TAL CAN	SEM
A:SM 4500 CN E	240-42411-G-1-C MSD		240-150489	240-150388	10/07/2014 12:13	1	TAL CAN	SEM
P:365.2/365.3/365	240-42554-A-1-C MSD		240-150059	240-149967	10/03/2014 09:11	1	TAL CAN	BLW
A:SM4500 P E-1999	240-42554-A-1-C MSD		240-150059	240-149967	10/03/2014 14:43	1	TAL CAN	BLW

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 09/29/2014 10:35 Received Date/Time: 09/29/2014 15:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-42469-Q-1 DU		240-149337		09/30/2014 09:19	1	TAL CAN	NJE
A:SM 2540D	240-42538-F-3 DU		240-149746		10/02/2014 08:59	1	TAL CAN	AS1

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
COD LCS_00004	10/07/14	04/07/14	DIWATER, Lot 1111	1 L	WCWIBBYDEMAND_00005	1000 mL	Chemical Oxygen Demand	136 mg/L
.WCWIBBYDEMAND_00005	07/31/16	WIBBY, Lot 8136-07			(Purchased Reagent)		Chemical Oxygen Demand	136 mL
EX10PPMSPK_00013	12/06/15	08/05/14	MEOH, Lot 0000062345	1000 mL	EXPCB1016_00005	2 mL	Aroclor-1016	10 ug/mL
					EXPCB1260_00006	2 mL	Aroclor-1260	10 ug/mL
.EXPCB1016_00005	12/06/15	AccuStandard, Inc., Lot B5120059			(Purchased Reagent)		Aroclor-1016	5000 ug/mL
.EXPCB1260_00006	01/25/23	AccuStandard, Lot B3060258-1A			(Purchased Reagent)		Aroclor-1260	5000 ug/mL
EX2/.2SURRW_00042	06/30/16	08/14/14	MEOH, Lot 62345	2000 mL	EX2/.2SURR_00017	2 mL	DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.EX2/.2SURR_00017	06/30/16	Ultra Scientific, Lot CK-1735			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
EXBNASPIKE_00027	11/30/14	09/24/14	MEOH, Lot 0000062345	200 mL	SMLIST1 S1_00003	4 mL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
					SMLIST1 S2_00005	4 mL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SMLIST1 S3_00003	4 mL	Benzoic acid	40 ug/mL
					SMLIST1 S4_00003	4 mL	Indene	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SMLIST1 S5_00003	4 mL	N-Nitrosodiphenylamine	40 ug/mL
.SMLIST1 S1_00003	08/22/14		Restek, Lot A093709		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.SMLIST1 S2_00005	12/22/14		Restek, Lot A095867		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
.SMLIST1 S3_00003	02/22/16		Restek, Lot A093441		(Purchased Reagent)		Benzoic acid	2000 ug/mL
.SMLIST1 S4_00003	08/22/14		Restek, Lot A093730		(Purchased Reagent)		Indene	2000 ug/mL
.SMLIST1 S5_00003	02/22/15		Restek, Lot A093442		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
EXBNASPIKE_00028	07/28/15	09/24/14	MEOH, Lot 0000062345	200 mL	SMLIST1 S1_00004	4 mL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1-Methylnaphthalene	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
					SMLIST1 S2_00008	4 mL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SMLIST1 S7_00001	4 mL	N-Nitrosodiphenylamine	40 ug/mL
.SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.SMLIST1 S2_00008	07/30/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
.SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
EXBNASURR W_00017	02/05/18	10/01/14	MEOH, Lot 62345	2000 mL	SMLIST1 SURR_00003	8 mL	2,4,6-Tribromophenol	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol	20 ug/mL
							Nitrobenzene-d5	20 ug/mL
							Phenol-d5	20 ug/mL
							Terphenyl-d14	20 ug/mL
.SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
K2S2O8_00014	07/27/16	09/30/14	DIWATER, Lot DIWATER	2.5 L	MTK2S208_00014	125 g	Potassium persulfate	0.05 g/g
.MTK2S208_00014	07/27/16		Macron, Lot 0000046094		(Purchased Reagent)		Potassium persulfate	1 g/g
MT6500ICV_00021	11/14/14	09/17/14	DIWATER, Lot DIWATER	1000 mL	MTTRICV3_00004	6 mL	Barium	1500 ug/L
							Beryllium	1500 ug/L
							Chromium	1500 ug/L
							Copper	1500 ug/L
							Manganese	1500 ug/L
							Nickel	1500 ug/L
							Zinc	1500 ug/L
					MTTRICV5_00010	1.5 mL	Antimony	375 ug/L
							Arsenic	375 ug/L
							Cadmium	375 ug/L
							Lead	375 ug/L
					MTTRICVAG_00004	7.5 mL	Silver	750 ug/L
.MTTRICV3_00004	06/01/15		CPI, Lot 1060597		(Purchased Reagent)		Barium	250 mg/L
							Beryllium	250 mg/L
							Chromium	250 mg/L
							Copper	250 mg/L
							Manganese	250 mg/L
							Nickel	250 mg/L
							Zinc	250 mg/L
.MTTRICV5_00010	06/01/15		CPI, Lot 1060598		(Purchased Reagent)		Antimony	250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Arsenic	250 ug/mL
							Cadmium	250 ug/mL
							Lead	250 ug/mL
.MTTRICVAG_00004	01/02/15	CPI, Lot 1048231			(Purchased Reagent)		Silver	100 mg/L
MTAGSPIKEW_00042	03/09/15	09/09/14	DIWATER, Lot DIWATER	1000 mL	MTAG_00005	2.5 mL	Silver	2500 ug/L
					MTTMHNO3_00036	50 mL	Nitric acid	50000000 ug/L
.MTAG_00005	12/27/15	HIGH PURITY STANDARDS, Lot 1401302			(Purchased Reagent)		Silver	1000 ug/mL
.MTTMHNO3_00036	07/31/16	Macron, Lot 0000076768			(Purchased Reagent)		Nitric acid	100 %
MTH2S04_00020	09/18/16	Macron, Lot 0000056441			(Purchased Reagent)		Sulfuric acid	100 %
MTHGCALW_00734	10/01/14	10/01/14	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00013	1 mL	Mercury	100 ug/L
					MTTMHNO3_00039	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00013	07/01/15	INORGANIC VENTURES, Lot G2-HG02115			(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00039	09/16/16	JT Baker, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00736	10/03/14	10/03/14	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00013	1 mL	Mercury	100 ug/L
					MTTMHNO3_00039	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00013	07/01/15	INORGANIC VENTURES, Lot G2-HG02115			(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00039	09/16/16	JT Baker, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
MTHgStd_00011	07/31/15	Teledyne Leeman, Lot 1368801			(Purchased Reagent)		Mercury	1 ug/mL
MTICP1_00033	01/27/15	08/28/14	DIWATER, Lot DI WATER	1000 mL	MTICPSPIKE1A_00007	50 mL	Al	100000 ug/L
							Arsenic	100000 ug/L
							B	50000 ug/L
							Barium	100000 ug/L
							Beryllium	2500 ug/L
							Cadmium	2500 ug/L
							Chromium	10000 ug/L
							Co	25000 ug/L
							Copper	12500 ug/L
							Fe	50000 ug/L
							Lead	25000 ug/L
							Manganese	25000 ug/L
							Nickel	25000 ug/L
							Se	100000 ug/L
							Tl	100000 ug/L
							V	25000 ug/L
							Zinc	25000 ug/L
					MTICPSPIKEB_00007	50 mL	Antimony	25000 ug/L
							Mo	50000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00004	50 mL	Li	50000 ug/L
							Si	50000 ug/L
							SiO2	107000 ug/L
							Sr	50000 ug/L
					MTTMHNO3_00037	50 mL	Nitric acid	50000000 ug/L
.MTICPSPIKE1A_00007	01/27/15	High Purity Standards, Lot 1402729			(Purchased Reagent)		Al	2000 ug/mL
							Arsenic	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							B	1000 ug/mL
							Barium	2000 ug/mL
							Beryllium	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Copper	250 ug/mL
							Fe	1000 ug/mL
							Lead	500 ug/mL
							Manganese	500 ug/mL
							Nickel	500 ug/mL
							Se	2000 ug/mL
							Tl	2000 ug/mL
							V	500 ug/mL
							Zinc	500 ug/mL
.MTICPSPIKEB_00007	01/27/15	High Purity Standards, Lot 1402315			(Purchased Reagent)		Antimony	500 ug/mL
							Mo	1000 ug/mL
							Sn	2000 ug/mL
							Ti	1000 ug/mL
.MTICPSpikeOdd_00004	01/27/15	High Purity Standards, Lot 1402316			(Purchased Reagent)		Li	1000 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sr	1000 ug/mL
.MTTMHNO3_00037	08/18/16	Macron, Lot LO8022			(Purchased Reagent)		Nitric acid	100 %
MTICP2A_00040	01/24/15	07/24/14	DIWATER, Lot DIWATER	1000 mL	MTTMHNO3_00034	50 mL	Nitric acid	50000 mg/L
					MTTRCAL2_00009	250 mL	Ca	2500 mg/L
							K	2500 mg/L
							Mg	2500 mg/L
							Na	2500 mg/L
.MTTMHNO3_00034	07/01/16	Macron, Lot 0000067457			(Purchased Reagent)		Nitric acid	100 %
.MTTRCAL2_00009	07/17/15	HIGH PURITY STANDARDS, Lot 1331807			(Purchased Reagent)		Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
MTICPCCV_00031	04/01/15	10/01/14	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00005	200 mL	Arsenic	500 ug/L
							Barium	2000 ug/L
							Beryllium	2000 ug/L
							Cadmium	500 ug/L
							Chromium	2000 ug/L
							Copper	2000 ug/L
							Lead	500 ug/L
							Manganese	2000 ug/L
							Nickel	2000 ug/L
							Zinc	2000 ug/L
					MTICPCCV2_00005	200 mL	Antimony	500 ug/L
							Silver	1000 ug/L
.MTICPCCV1_00005	08/01/15	INORGANIC VENTURES, Lot H2-MEB523064			(Purchased Reagent)		Arsenic	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Barium	20000 ug/L
							Beryllium	20000 ug/L
							Cadmium	5000 ug/L
							Chromium	20000 ug/L
							Copper	20000 ug/L
							Lead	5000 ug/L
							Manganese	20000 ug/L
							Nickel	20000 ug/L
							Zinc	20000 ug/L
.MTICPCCV2_00005	08/01/15	INORGANIC VENTURES, Lot H2-MEB523065			(Purchased Reagent)		Antimony	5000 ug/L
							Silver	10000 ug/L
MTICPICSABW_00005	01/01/15	07/17/14	DIWATER, Lot DIWATER	1000 mL	MTICPICSAB1_00002	100 mL	Al	500000 ug/L
							Arsenic	1000 ug/L
							B	500 ug/L
							Barium	500 ug/L
							Beryllium	500 ug/L
							Ca	500000 ug/L
							Cadmium	1000 ug/L
							Chromium	500 ug/L
							Co	500 ug/L
							Copper	500 ug/L
							Fe	200000 ug/L
							K	10000 ug/L
							Lead	1000 ug/L
							Li	500 ug/L
							Manganese	500 ug/L
							Mg	500000 ug/L
							Na	10000 ug/L
							Nickel	1000 ug/L
							Se	1000 ug/L
							Sr	1500 ug/L
							Tl	1000 ug/L
							V	500 ug/L
							Zinc	1000 ug/L
					MTICPICSAB2_00002	100 mL	Antimony	1000 ug/L
							Mo	1000 ug/L
							Si	10000 ug/L
							Silver	1000 ug/L
							Sn	500 ug/L
							Ti	500 ug/L
.MTICPICSAB1_00002	01/01/15	INORGANIC VENTURES, Lot G2-MEB505142			(Purchased Reagent)		Al	5000000 ug/L
							Arsenic	10000 ug/L
							B	5000 ug/L
							Barium	5000 ug/L
							Beryllium	5000 ug/L
							Ca	5000000 ug/L
							Cadmium	10000 ug/L

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chromium	5000 ug/L
							Co	5000 ug/L
							Copper	5000 ug/L
							Fe	2000000 ug/L
							K	100000 ug/L
							Lead	10000 ug/L
							Li	5000 ug/L
							Manganese	5000 ug/L
							Mg	5000000 ug/L
							Na	100000 ug/L
							Nickel	10000 ug/L
							Se	10000 ug/L
							Sr	15000 ug/L
							Tl	10000 ug/L
							V	5000 ug/L
							Zinc	10000 ug/L
.MTICPICSAB2_00002	01/01/15	INORGANIC VENTURES, Lot G2-MEB505143			(Purchased Reagent)		Antimony	10000 ug/L
							Mo	10000 ug/L
							Si	100000 ug/L
							Silver	10000 ug/L
							Sn	5000 ug/L
							Ti	5000 ug/L
MTK2S208RGNT_00054	04/16/16	04/16/14	DIWATER, Lot DIWATER	1 L	MTK2S208_00011	100 g	Potassium persulfate	0.1 g/g
.MTK2S208_00011	10/10/17	Fisher, Lot 120909			(Purchased Reagent)		Potassium persulfate	1 g/g
MTKMN04W_00070	09/23/16	09/23/14	DIWATER, Lot DIWATER	2.5 L	MTKMN04_00018	125 g	Potassium Permanganate	0.05 g/g
.MTKMN04_00018	08/07/19	Fisher, Lot 121666			(Purchased Reagent)		Potassium Permanganate	1 g/g
MTTMHCL_00045	09/12/16	J.T. Baker/Avantor, Lot 0000083855			(Purchased Reagent)		Hydrogen Chloride	100 %
MTTMHNO3_00039	09/16/16	JT Baker, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
MTTMHNO3_00040	09/29/16	JT Baker, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
MTTRCRIC_00022	12/01/14	09/05/14	DIWATER, Lot DIWATER	500 mL	MTTRCRI6010C_00008	25 mL	Antimony	20 ug/L
							Arsenic	15 ug/L
							Barium	200 ug/L
							Beryllium	5 ug/L
							Cadmium	5 ug/L
							Chromium	10 ug/L
							Copper	20 ug/L
							Lead	10 ug/L
							Manganese	15 ug/L
							Nickel	40 ug/L
							Silver	10 ug/L
							Zinc	50 ug/L
.MTTRCRI6010C_00008	12/01/14	Inorganic Ventures, Lot G2-MEB500140			(Purchased Reagent)		Antimony	400 ug/L
							Arsenic	300 ug/L
							Barium	4000 ug/L
							Beryllium	100 ug/L
							Cadmium	100 ug/L

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chromium	200 ug/L
							Copper	400 ug/L
							Lead	200 ug/L
							Manganese	300 ug/L
							Nickel	800 ug/L
							Silver	200 ug/L
							Zinc	1000 ug/L
MTTRICSAW_00024	03/23/15	09/23/14	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00012	100 mL	Al	500000 ug/L
							Ca	500000 ug/L
							Fe	200000 ug/L
							Mg	500000 ug/L
.MTTRICSA_00012	06/01/15	INORGANIC VENTURES, Lot G2-MEB491156			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
SG 1660 ICV_00007	07/23/14	07/23/13	HEXANE, Lot 0000036784	10 mL	SG 1016 ICV_00006	1 mL	Aroclor-1016	10 ug/mL
					SG 1260 ICV_00007	1 mL	Aroclor-1260	10 ug/mL
.SG 1016 ICV_00006	02/29/20	ULTRA, Lot CJ-0176			(Purchased Reagent)		Aroclor-1016	100 ug/mL
.SG 1260 ICV_00007	12/31/14	ULTRA, Lot CC-3829			(Purchased Reagent)		Aroclor-1260	100 ug/mL
SG1232@0.05PP_00010	12/02/14	06/02/14	HEXANE, Lot 00000068605	100 mL	SG1232@10ppm_00004	0.5 mL	PCB-1232 Peak 1	0.05 ug/mL
							PCB-1232 Peak 2	0.05 ug/mL
							PCB-1232 Peak 3	0.05 ug/mL
							PCB-1232 Peak 4	0.05 ug/mL
							PCB-1232 Peak 5	0.05 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18	restek, Lot A090290			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@0.1PPM_00008	12/02/14	06/02/14	HEXANE, Lot 00000068605	100 mL	SG1232@10ppm_00004	1 mL	PCB-1232 Peak 1	0.1 ug/mL
							PCB-1232 Peak 2	0.1 ug/mL
							PCB-1232 Peak 3	0.1 ug/mL
							PCB-1232 Peak 4	0.1 ug/mL
							PCB-1232 Peak 5	0.1 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18	restek, Lot A090290			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@0.2PPM_00008	12/02/14	06/02/14	HEXANE, Lot 00000068605	100 mL	SG1232@10ppm_00004	2 mL	PCB-1232 Peak 1	0.2 ug/mL
							PCB-1232 Peak 2	0.2 ug/mL
							PCB-1232 Peak 3	0.2 ug/mL
							PCB-1232 Peak 4	0.2 ug/mL
							PCB-1232 Peak 5	0.2 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@0.5PPM_00015	09/01/14	03/01/14	HEXANE, Lot 1285393	100 mL	SG1232@10ppm_00004	5 mL	PCB-1232 Peak 1	0.5 ug/mL
							PCB-1232 Peak 2	0.5 ug/mL
							PCB-1232 Peak 3	0.5 ug/mL
							PCB-1232 Peak 4	0.5 ug/mL
							PCB-1232 Peak 5	0.5 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@1.0PPM_00008	12/02/14	06/02/14	HEXANE, Lot 00000068605	100 mL	SG1232@10ppm_00004	10 mL	PCB-1232 Peak 1	1 ug/mL
							PCB-1232 Peak 2	1 ug/mL
							PCB-1232 Peak 3	1 ug/mL
							PCB-1232 Peak 4	1 ug/mL
							PCB-1232 Peak 5	1 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 5	1000 ug/mL
SG1232@2.0PPM_00008	12/02/14	06/02/14	HEXANE, Lot 00000068605	100 mL	SG1232@10ppm_00004	20 mL	PCB-1232 Peak 1	2 ug/mL
							PCB-1232 Peak 2	2 ug/mL
							PCB-1232 Peak 3	2 ug/mL
							PCB-1232 Peak 4	2 ug/mL
							PCB-1232 Peak 5	2 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18	restek, Lot A090290			(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1242@.05ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1242@10ppm_00004	0.5 mL	PCB-1242 Peak 1	0.05 ug/mL
							PCB-1242 Peak 2	0.05 ug/mL
							PCB-1242 Peak 3	0.05 ug/mL
							PCB-1242 Peak 4	0.05 ug/mL
							PCB-1242 Peak 5	0.05 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18	Restek, Lot A085599			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@0.1ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1242@10ppm_00004	1 mL	PCB-1242 Peak 1	0.1 ug/mL
							PCB-1242 Peak 2	0.1 ug/mL
							PCB-1242 Peak 3	0.1 ug/mL
							PCB-1242 Peak 4	0.1 ug/mL
							PCB-1242 Peak 5	0.1 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18	Restek, Lot A085599			(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG1242@0.2ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1242@10ppm_00004	2 mL	PCB-1242 Peak 1	0.2 ug/mL
							PCB-1242 Peak 2	0.2 ug/mL
							PCB-1242 Peak 3	0.2 ug/mL
							PCB-1242 Peak 4	0.2 ug/mL
							PCB-1242 Peak 5	0.2 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18		Restek, Lot A085599		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@0.5ppm_00011	06/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242@10ppm_00004	5 mL	PCB-1242 Peak 1	0.5 ug/mL
							PCB-1242 Peak 2	0.5 ug/mL
							PCB-1242 Peak 3	0.5 ug/mL
							PCB-1242 Peak 4	0.5 ug/mL
							PCB-1242 Peak 5	0.5 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18		Restek, Lot A085599		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@1.0ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000036784	100 mL	SG1242@10ppm_00004	10 mL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18		Restek, Lot A085599		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@2.0ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1242@10ppm_00004	20 mL	PCB-1242 Peak 1	2 ug/mL
							PCB-1242 Peak 2	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 3	2 ug/mL
							PCB-1242 Peak 4	2 ug/mL
							PCB-1242 Peak 5	2 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18		Restek, Lot A085599		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1248@.05ppm_00009	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1248@10ppm_00005	0.5 mL	PCB-1248 Peak 1	0.05 ug/mL
							PCB-1248 Peak 2	0.05 ug/mL
							PCB-1248 Peak 3	0.05 ug/mL
							PCB-1248 Peak 4	0.05 ug/mL
							PCB-1248 Peak 5	0.05 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.1PPM_00008	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1248@10ppm_00005	1 mL	PCB-1248 Peak 1	0.1 ug/mL
							PCB-1248 Peak 2	0.1 ug/mL
							PCB-1248 Peak 3	0.1 ug/mL
							PCB-1248 Peak 4	0.1 ug/mL
							PCB-1248 Peak 5	0.1 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.2ppm_00008	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1248@10ppm_00005	2 mL	PCB-1248 Peak 1	0.2 ug/mL
							PCB-1248 Peak 2	0.2 ug/mL
							PCB-1248 Peak 3	0.2 ug/mL
							PCB-1248 Peak 4	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1248 Peak 5	0.2 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.5ppm_00011	06/23/14	12/23/13	HEXANE, Lot 00000056763	100 mL	SG1248@10ppm_00005	5 mL	PCB-1248 Peak 1	0.5 ug/mL
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@1.0ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1248@10ppm_00005	10 mL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@2.0ppm_00007	07/03/14	07/03/13	HEXANE, Lot 0000056763	100 mL	SG1248@10ppm_00005	20 mL	PCB-1248 Peak 1	2 ug/mL
							PCB-1248 Peak 2	2 ug/mL
							PCB-1248 Peak 3	2 ug/mL
							PCB-1248 Peak 4	2 ug/mL
							PCB-1248 Peak 5	2 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1262@.05PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	0.5 mL	PCB-1262 Peak 1	0.05 ug/mL
							PCB-1262 Peak 2	0.05 ug/mL
							PCB-1262 Peak 3	0.05 ug/mL
							PCB-1262 Peak 4	0.05 ug/mL
							PCB-1262 Peak 5	0.05 ug/mL
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1262@0.1PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	1 mL	PCB-1262 Peak 1	0.1 ug/mL
							PCB-1262 Peak 2	0.1 ug/mL
							PCB-1262 Peak 3	0.1 ug/mL
							PCB-1262 Peak 4	0.1 ug/mL
							PCB-1262 Peak 5	0.1 ug/mL
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1262@0.2PPM_00009	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	2 mL	PCB-1262 Peak 1	0.2 ug/mL
							PCB-1262 Peak 2	0.2 ug/mL
							PCB-1262 Peak 3	0.2 ug/mL
							PCB-1262 Peak 4	0.2 ug/mL
							PCB-1262 Peak 5	0.2 ug/mL
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1262@0.5PPM_00009	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	5 mL	PCB-1262 Peak 1	0.5 ug/mL
							PCB-1262 Peak 2	0.5 ug/mL
							PCB-1262 Peak 3	0.5 ug/mL
							PCB-1262 Peak 4	0.5 ug/mL
							PCB-1262 Peak 5	0.5 ug/mL
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1262@1.0PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	10 mL	PCB-1262 Peak 1	1 ug/mL
							PCB-1262 Peak 2	1 ug/mL
							PCB-1262 Peak 3	1 ug/mL
							PCB-1262 Peak 4	1 ug/mL
							PCB-1262 Peak 5	1 ug/mL
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1262@2.0PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	20 mL	PCB-1262 Peak 1	2 ug/mL
							PCB-1262 Peak 2	2 ug/mL
							PCB-1262 Peak 3	2 ug/mL
							PCB-1262 Peak 4	2 ug/mL
							PCB-1262 Peak 5	2 ug/mL
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1268@.05ppm_00010	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	0.5 mL	PCB-1268 Peak 1	0.05 ug/mL
							PCB-1268 Peak 2	0.05 ug/mL
							PCB-1268 Peak 3	0.05 ug/mL
							PCB-1268 Peak 4	0.05 ug/mL
							PCB-1268 Peak 5	0.05 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG1268@.1PPM_00011	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	1 mL	PCB-1268 Peak 1	0.1 ug/mL
							PCB-1268 Peak 2	0.1 ug/mL
							PCB-1268 Peak 3	0.1 ug/mL
							PCB-1268 Peak 4	0.1 ug/mL
							PCB-1268 Peak 5	0.1 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG1268@0.2ppm_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	2 mL	PCB-1268 Peak 1	0.2 ug/mL
							PCB-1268 Peak 2	0.2 ug/mL
							PCB-1268 Peak 3	0.2 ug/mL
							PCB-1268 Peak 4	0.2 ug/mL
							PCB-1268 Peak 5	0.2 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG1268@0.5ppm_00010	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	5 mL	PCB-1268 Peak 1	0.5 ug/mL
							PCB-1268 Peak 2	0.5 ug/mL
							PCB-1268 Peak 3	0.5 ug/mL
							PCB-1268 Peak 4	0.5 ug/mL
							PCB-1268 Peak 5	0.5 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG1268@1.0PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	10 mL	PCB-1268 Peak 1	1 ug/mL
							PCB-1268 Peak 2	1 ug/mL
							PCB-1268 Peak 3	1 ug/mL
							PCB-1268 Peak 4	1 ug/mL
							PCB-1268 Peak 5	1 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG1268@2.0PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	20 mL	PCB-1268 Peak 1	2 ug/mL
							PCB-1268 Peak 2	2 ug/mL
							PCB-1268 Peak 3	2 ug/mL
							PCB-1268 Peak 4	2 ug/mL
							PCB-1268 Peak 5	2 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 5	1000 ug/mL
SG1660@.05PPM_00008	08/24/14	02/24/14	HEXANE, Lot 1285393	100 mL	SG1016/1260_00008	0.5 mL	PCB-1016 Peak 1	0.05 ug/mL
							PCB-1016 Peak 2	0.05 ug/mL
							PCB-1016 Peak 3	0.05 ug/mL
							PCB-1016 Peak 4	0.05 ug/mL
							PCB-1016 Peak 5	0.05 ug/mL
							PCB-1260 Peak 1	0.05 ug/mL
							PCB-1260 Peak 2	0.05 ug/mL
							PCB-1260 Peak 3	0.05 ug/mL
							PCB-1260 Peak 4	0.05 ug/mL
							PCB-1260 Peak 5	0.05 ug/mL
					SGPCGSURRSTK_00004	0.125 mL	DCB Decachlorobiphenyl	0.0025 ug/mL
							Tetrachloro-m-xylene	0.0025 ug/mL
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.2ppm_00008	08/24/14	02/24/14	HEXANE, Lot 1285393	100 mL	SG1016/1260_00008	2 mL	PCB-1016 Peak 1	0.2 ug/mL
							PCB-1016 Peak 2	0.2 ug/mL
							PCB-1016 Peak 3	0.2 ug/mL
							PCB-1016 Peak 4	0.2 ug/mL
							PCB-1016 Peak 5	0.2 ug/mL
							PCB-1260 Peak 1	0.2 ug/mL
							PCB-1260 Peak 2	0.2 ug/mL
							PCB-1260 Peak 3	0.2 ug/mL
							PCB-1260 Peak 4	0.2 ug/mL
							PCB-1260 Peak 5	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGPCGSURRSTK_00004	0.5 mL	DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00030	08/24/14	04/30/14	HEXANE, Lot 0000065259	200 mL	SG1016/1260_00008	10 mL	PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					SGPCGSURRSTK_00004	2.5 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00036	03/16/15	09/16/14	HEXANE, Lot 0000078259	200 mL	SG1016/1260_00010	10 mL	Aroclor-1016	0.5 ug/mL
							Aroclor-1260	0.5 ug/mL
							PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					SGPCGSURRSTK_00005	2.5 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00010	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SG1016/1260MX_00005	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
							PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00005	08/31/18		Restek, Lot a090183		(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@1.0PPM_00008	08/24/14	02/24/14	HEXANE, Lot 1285393	100 mL	SG1016/1260_00008	10 mL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					SGPCGSURRSTK_00004	2.5 mL	DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@2.0PPM_00008	08/24/14	02/24/14	HEXANE, Lot 1285393	100 mL	SG1016/1260_00008	20 mL	PCB-1016 Peak 1	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 2	2 ug/mL
							PCB-1016 Peak 3	2 ug/mL
							PCB-1016 Peak 4	2 ug/mL
							PCB-1016 Peak 5	2 ug/mL
							PCB-1260 Peak 1	2 ug/mL
							PCB-1260 Peak 2	2 ug/mL
							PCB-1260 Peak 3	2 ug/mL
							PCB-1260 Peak 4	2 ug/mL
							PCB-1260 Peak 5	2 ug/mL
					SGPCGSURRSTK_00004	5 mL	DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18	Restek, Lot a082781			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19	restek, Lot a092533			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660STD@0.1_00009	08/24/14	02/24/14	HEXANE, Lot 1285393	100 mL	SG1016/1260_00008	1 mL	PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
					SGPCGSURRSTK_00004	0.25 mL	DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG2154@0.05PP_00006	07/22/14	01/22/14	HEXANE, Lot 0000056763	100 mL	SG2154@10ppm_00004	0.5 mL	PCB-1221 Peak 1	0.05 ug/mL
							PCB-1221 Peak 2	0.05 ug/mL
							PCB-1221 Peak 3	0.05 ug/mL
							PCB-1254 Peak 1	0.05 ug/mL
							PCB-1254 Peak 2	0.05 ug/mL
							PCB-1254 Peak 3	0.05 ug/mL
							PCB-1254 Peak 4	0.05 ug/mL
							PCB-1254 Peak 5	0.05 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.2PPM_00007	07/22/14	01/22/14	HEXANE, Lot 0000056763	100 mL	SG2154@10ppm_00004	2 mL	PCB-1221 Peak 1	0.2 ug/mL
							PCB-1221 Peak 2	0.2 ug/mL
							PCB-1221 Peak 3	0.2 ug/mL
							PCB-1254 Peak 1	0.2 ug/mL
							PCB-1254 Peak 2	0.2 ug/mL
							PCB-1254 Peak 3	0.2 ug/mL
							PCB-1254 Peak 4	0.2 ug/mL
							PCB-1254 Peak 5	0.2 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.5PPM_00011	07/05/14	01/05/14	HEXANE, Lot 00000056763	100 mL	SG2154@10ppm_00004	5 mL	PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@1.0PPM_00008	07/22/14	01/22/14	HEXANE, Lot 0000056763	100 mL	SG2154@10ppm_00004	10 mL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
							PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@2.0PPM_00007	07/22/14	01/22/14	HEXANE, Lot 0000056763	100 mL	SG2154@10ppm_00004	20 mL	PCB-1221 Peak 1	2 ug/mL
							PCB-1221 Peak 2	2 ug/mL
							PCB-1221 Peak 3	2 ug/mL
							PCB-1254 Peak 1	2 ug/mL
							PCB-1254 Peak 2	2 ug/mL
							PCB-1254 Peak 3	2 ug/mL
							PCB-1254 Peak 4	2 ug/mL
							PCB-1254 Peak 5	2 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@O.1PPM_00007	07/22/14	01/22/14	HEXANE, Lot 0000056763	100 mL	SG2154@10ppm_00004	1 mL	PCB-1221 Peak 1	0.1 ug/mL
							PCB-1221 Peak 2	0.1 ug/mL
							PCB-1221 Peak 3	0.1 ug/mL
							PCB-1254 Peak 1	0.1 ug/mL
							PCB-1254 Peak 2	0.1 ug/mL
							PCB-1254 Peak 3	0.1 ug/mL
							PCB-1254 Peak 4	0.1 ug/mL
							PCB-1254 Peak 5	0.1 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SGPestAB1_00009	12/29/14	06/30/14	HEXANE, Lot 75731	100 mL	SGPESTABST_00009	25 uL	4,4'-DDD	0.005 ug/mL
							4,4'-DDE	0.005 ug/mL
							4,4'-DDT	0.005 ug/mL
							Aldrin	0.005 ug/mL
							alpha-BHC	0.005 ug/mL
							alpha-Chlordane	0.005 ug/mL
							beta-BHC	0.005 ug/mL
							delta-BHC	0.005 ug/mL
							Dieldrin	0.005 ug/mL
							Endosulfan I	0.005 ug/mL
							Endosulfan II	0.005 ug/mL
							Endosulfan sulfate	0.005 ug/mL
							Endrin	0.005 ug/mL
							Endrin aldehyde	0.005 ug/mL
							Endrin ketone	0.005 ug/mL
							gamma-BHC (Lindane)	0.005 ug/mL
							gamma-Chlordane	0.005 ug/mL
							Heptachlor	0.005 ug/mL
							Heptachlor epoxide	0.005 ug/mL
							Methoxychlor	0.005 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL
.SGPESTABST_00009	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	sgpestabcorp1_00003	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00003	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB2_00008	12/29/14	06/30/14	HEXANE, Lot 75731	100 mL	SGPESTABST_00009	50 uL	4,4'-DDD	0.01 ug/mL
							4,4'-DDE	0.01 ug/mL
							4,4'-DDT	0.01 ug/mL
							Aldrin	0.01 ug/mL
							alpha-BHC	0.01 ug/mL
							alpha-Chlordane	0.01 ug/mL
							beta-BHC	0.01 ug/mL
							delta-BHC	0.01 ug/mL
							Dieldrin	0.01 ug/mL
							Endosulfan I	0.01 ug/mL
							Endosulfan II	0.01 ug/mL
							Endosulfan sulfate	0.01 ug/mL
							Endrin	0.01 ug/mL
							Endrin aldehyde	0.01 ug/mL
							Endrin ketone	0.01 ug/mL
							gamma-BHC (Lindane)	0.01 ug/mL
							gamma-Chlordane	0.01 ug/mL
							Heptachlor	0.01 ug/mL
							Heptachlor epoxide	0.01 ug/mL
							Methoxychlor	0.01 ug/mL
							DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SGPESTABST_00009	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	sgpestabcorp1_00003	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00003	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB3_00012	12/29/14	06/30/14	HEXANE, Lot 75731	200 mL	SGPESTABST_00009	250 uL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							alpha-Chlordane	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							gamma-Chlordane	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
							DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SGPESTABST_00009	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	sgpestabcorp1_00003	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00003	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SGPestAB4_00008	12/29/14	06/30/14	HEXANE, Lot 75731	100 mL	SGPESTABST_00009	250 uL	4,4'-DDD	0.05 ug/mL
							4,4'-DDE	0.05 ug/mL
							4,4'-DDT	0.05 ug/mL
							Aldrin	0.05 ug/mL
							alpha-BHC	0.05 ug/mL
							alpha-Chlordane	0.05 ug/mL
							beta-BHC	0.05 ug/mL
							delta-BHC	0.05 ug/mL
							Dieldrin	0.05 ug/mL
							Endosulfan I	0.05 ug/mL
							Endosulfan II	0.05 ug/mL
							Endosulfan sulfate	0.05 ug/mL
							Endrin	0.05 ug/mL
							Endrin aldehyde	0.05 ug/mL
							Endrin ketone	0.05 ug/mL
							gamma-BHC (Lindane)	0.05 ug/mL
							gamma-Chlordane	0.05 ug/mL
							Heptachlor	0.05 ug/mL
							Heptachlor epoxide	0.05 ug/mL
							Methoxychlor	0.05 ug/mL
							DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SGPESTABST_00009	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	sgpestabcorp1_00003	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00003	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB5_00008	12/29/14	06/30/14	HEXANE, Lot 75731	100 mL	SGPESTABST_00009	500 uL	4,4'-DDD	0.1 ug/mL
							4,4'-DDE	0.1 ug/mL
							4,4'-DDT	0.1 ug/mL
							Aldrin	0.1 ug/mL
							alpha-BHC	0.1 ug/mL
							alpha-Chlordane	0.1 ug/mL
							beta-BHC	0.1 ug/mL
							delta-BHC	0.1 ug/mL
							Dieldrin	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan I	0.1 ug/mL
							Endosulfan II	0.1 ug/mL
							Endosulfan sulfate	0.1 ug/mL
							Endrin	0.1 ug/mL
							Endrin aldehyde	0.1 ug/mL
							Endrin ketone	0.1 ug/mL
							gamma-BHC (Lindane)	0.1 ug/mL
							gamma-Chlordane	0.1 ug/mL
							Heptachlor	0.1 ug/mL
							Heptachlor epoxide	0.1 ug/mL
							Methoxychlor	0.1 ug/mL
							DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SGPESTABST_00009	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	sgpestabcorp1_00003	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00003	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB6_00008	12/29/14	06/30/14	HEXANE, Lot 75731	100 mL	SGPESTABST_00009	1 mL	4,4'-DDD	0.2 ug/mL
							4,4'-DDE	0.2 ug/mL
							4,4'-DDT	0.2 ug/mL
							Aldrin	0.2 ug/mL
							alpha-BHC	0.2 ug/mL
							alpha-Chlordane	0.2 ug/mL
							beta-BHC	0.2 ug/mL
							delta-BHC	0.2 ug/mL
							Dieldrin	0.2 ug/mL
							Endosulfan I	0.2 ug/mL
							Endosulfan II	0.2 ug/mL
							Endosulfan sulfate	0.2 ug/mL
							Endrin	0.2 ug/mL
							Endrin aldehyde	0.2 ug/mL
							Endrin ketone	0.2 ug/mL
							gamma-BHC (Lindane)	0.2 ug/mL
							gamma-Chlordane	0.2 ug/mL
							Heptachlor	0.2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Heptachlor epoxide	0.2 ug/mL
							Methoxychlor	0.2 ug/mL
							DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.SGPESTABST_00009	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	sgpestabcorp1_00003	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00003	12/30/14	06/30/14	HEXANE, Lot 0000075731	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPESTPEM_00013	03/20/15	09/22/14	HEXANE, Lot 78259	100 mL	SGPESTPEMS_00011	1 mL	4,4'-DDT	0.1 ug/mL
							alpha-BHC	0.01 ug/mL
							beta-BHC	0.01 ug/mL
							Endrin	0.05 ug/mL
							gamma-BHC (Lindane)	0.01 ug/mL
							Methoxychlor	0.25 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SGPESTPEMS_00011	12/31/15		Restek, Lot A085642		(Purchased Reagent)		4,4'-DDT	10 ug/mL
							alpha-BHC	1 ug/mL
							beta-BHC	1 ug/mL
							Endrin	5 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							Methoxychlor	25 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
SGPESTTCST_00015	01/11/15	07/12/14	HEXANE, Lot 75731	100 mL	SGPESTTCorp_00002	0.1 mL	Chlordane (technical) Peak 1	1 ug/mL
							Chlordane (technical) Peak 2	1 ug/mL
							Chlordane (technical) Peak 3	1 ug/mL
							Chlordane (technical) Peak 4	1 ug/mL
.SGPESTTCorp_00002	07/12/15	07/12/14	HEXANE, Lot 0000075731	5 mL	SGPESTTC_00006	1 mL	Chlordane (technical) Peak 1	1000 ug/mL
							Chlordane (technical) Peak 2	1000 ug/mL
							Chlordane (technical) Peak 3	1000 ug/mL
							Chlordane (technical) Peak 4	1000 ug/mL
..SGPESTTC_00006	11/30/17		Restek, Lot A099454		(Purchased Reagent)		Chlordane (technical) Peak 1	5000 ug/mL
							Chlordane (technical) Peak 2	5000 ug/mL
							Chlordane (technical) Peak 3	5000 ug/mL
							Chlordane (technical) Peak 4	5000 ug/mL
SGPESTTCST_00015	01/11/15	07/12/14	HEXANE, Lot 75731	100 mL	SGPESTTCorp_00002	0.1 mL	Chlordane (technical)	1 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SGPESTTCorp_00002	07/12/15	07/12/14	HEXANE, Lot 0000075731	5 mL	SGPESTTC_00006	1 mL	Chlordane (technical)	1000 ug/mL
..SGPESTTC_00006	11/30/17		Restek, Lot A099454		(Purchased Reagent)		Chlordane (technical)	5000 ug/mL
SMDIOXSCRN_00003	07/25/23		Accu Standard, Lot B4010226-1A		(Purchased Reagent)		2,3,7,8-TCDD	50 ug/mL
SMLIST1 L1 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1PAH ST_00003	2 uL	1,1'-Biphenyl	0.1 ug/mL
							2-Chloronaphthalene	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							Acenaphthene	0.1 ug/mL
							Acenaphthylene	0.1 ug/mL
							Anthracene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[g,h,i]perylene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Dibenzofuran	0.1 ug/mL
							Fluoranthene	0.1 ug/mL
							Fluorene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							Naphthalene	0.1 ug/mL
							Phenanthrene	0.1 ug/mL
							Pyrene	0.1 ug/mL
							2-Fluorobiphenyl (Surr)	0.1 ug/mL
							Nitrobenzene-d5	0.1 ug/mL
							Terphenyl-d14	0.1 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1PAH ST_00003	08/31/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 PAH_00003	300 uL	1,1'-Biphenyl	100 ug/mL
							2-Chloronaphthalene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 SURR_00003	60 uL	2-Fluorobiphenyl (Surr)	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 PAH_00003	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2-Fluorobiphenyl (Surr)	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L2 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	10 uL	1,1'-Biphenyl	0.5 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.5 ug/mL
							1,2,4-Trichlorobenzene	0.5 ug/mL
							1,2-Dichlorobenzene	0.5 ug/mL
							1,2-Diphenylhydrazine	0.5 ug/mL
							1,3-Dichlorobenzene	0.5 ug/mL
							1,4-Dichlorobenzene	0.5 ug/mL
							1,4-Dioxane	0.5 ug/mL
							2,2'-oxybis[1-chloropropane]	0.5 ug/mL
							2,4,5-Trichlorophenol	0.5 ug/mL
							2,4,6-Trichlorophenol	0.5 ug/mL
							2,4-Dichlorophenol	0.5 ug/mL
							2,4-Dimethylphenol	0.5 ug/mL
							2,4-Dinitrophenol	1 ug/mL
							2,4-Dinitrotoluene	0.5 ug/mL
							2,6-Dinitrotoluene	0.5 ug/mL
							2-Chloronaphthalene	0.5 ug/mL
							2-Chlorophenol	0.5 ug/mL
							2-Methylnaphthalene	0.5 ug/mL
							2-Methylphenol	0.5 ug/mL
							2-Nitroaniline	0.5 ug/mL
							2-Nitrophenol	0.5 ug/mL
							3 & 4 Methylphenol	0.5 ug/mL
							3-Nitroaniline	0.5 ug/mL
							4,6-Dinitro-2-methylphenol	1 ug/mL
							4-Bromophenyl phenyl ether	0.5 ug/mL
							4-Chloro-3-methylphenol	0.5 ug/mL
							4-Chloroaniline	0.5 ug/mL
							4-Chlorophenyl phenyl ether	0.5 ug/mL
							4-Nitroaniline	0.5 ug/mL
							4-Nitrophenol	1 ug/mL
							Acenaphthene	0.5 ug/mL
							Acenaphthylene	0.5 ug/mL
							Acetophenone	0.5 ug/mL
							Aniline	0.5 ug/mL
							Anthracene	0.5 ug/mL
							Azobenzene	0.5 ug/mL
							Benzo[a]anthracene	0.5 ug/mL
							Benzo[a]pyrene	0.5 ug/mL
							Benzo[b]fluoranthene	0.5 ug/mL
							Benzo[g,h,i]perylene	0.5 ug/mL
							Benzo[k]fluoranthene	0.5 ug/mL
							Benzyl alcohol	0.5 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	0.5 ug/mL
							Bis(2-chloroethyl)ether	0.5 ug/mL
							Bis(2-ethylhexyl) phthalate	0.5 ug/mL
							Butyl benzyl phthalate	0.5 ug/mL
							Carbazole	0.5 ug/mL
							Chrysene	0.5 ug/mL
							Di-n-butyl phthalate	0.5 ug/mL
							Di-n-octyl phthalate	0.5 ug/mL
							Dibenz(a,h)anthracene	0.5 ug/mL
							Dibenzofuran	0.5 ug/mL
							Diethyl phthalate	0.5 ug/mL
							Dimethyl phthalate	0.5 ug/mL
							Fluoranthene	0.5 ug/mL
							Fluorene	0.5 ug/mL
							Hexachlorobenzene	0.5 ug/mL
							Hexachlorobutadiene	0.5 ug/mL
							Hexachlorocyclopentadiene	0.5 ug/mL
							Hexachloroethane	0.5 ug/mL
							Indeno[1,2,3-cd]pyrene	0.5 ug/mL
							Isophorone	0.5 ug/mL
							n-Decane	0.5 ug/mL
							N-Nitrosodi-n-propylamine	0.5 ug/mL
							N-Nitrosodimethylamine	0.5 ug/mL
							n-Octadecane	0.5 ug/mL
							Naphthalene	0.5 ug/mL
							Nitrobenzene	0.5 ug/mL
							Pentachlorophenol	1 ug/mL
							Phenanthrene	0.5 ug/mL
							Phenol	0.5 ug/mL
							Pyrene	0.5 ug/mL
							Pyridine	0.5 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Benzoic acid	1 ug/mL
							2,4,6-Tribromophenol	0.5 ug/mL
							2-Fluorobiphenyl (Surr)	0.5 ug/mL
							2-Fluorophenol	0.5 ug/mL
							Nitrobenzene-d5	0.5 ug/mL
							Phenol-d5	0.5 ug/mL
							Terphenyl-d14	0.5 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L3 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	20 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Azobenzene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	1 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							Benzoic acid	2 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5	1 ug/mL
							Phenol-d5	1 ug/mL
							Terphenyl-d14	1 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L4 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	40 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Azobenzene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	2 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzoic acid	4 ug/mL
							2,4,6-Tribromophenol	2 ug/mL
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol	2 ug/mL
							Nitrobenzene-d5	2 ug/mL
							Phenol-d5	2 ug/mL
							Terphenyl-d14	2 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L5 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	100 uL	1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL
							2,2'-oxybis[1-chloropropane]	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3 & 4 Methylphenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Azobenzene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Bis(2-ethylhexyl) phthalate	5 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							n-Decane	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							n-Octadecane	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	5 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Benzoic acid	10 ug/mL
							2,4,6-Tribromophenol	5 ug/mL
							2-Fluorobiphenyl (Surr)	5 ug/mL
							2-Fluorophenol	5 ug/mL
							Nitrobenzene-d5	5 ug/mL
							Phenol-d5	5 ug/mL
							Terphenyl-d14	5 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L6 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	200 uL	1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Azobenzene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							Pyridine	10 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Benzoic acid	20 ug/mL
							2,4,6-Tribromophenol	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol	10 ug/mL
							Nitrobenzene-d5	10 ug/mL
							Phenol-d5	10 ug/mL
							Terphenyl-d14	10 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L7 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	300 uL	1,1'-Biphenyl	15 ug/mL
							1,2,4,5-Tetrachlorobenzene	15 ug/mL
							1,2,4-Trichlorobenzene	15 ug/mL
							1,2-Dichlorobenzene	15 ug/mL
							1,2-Diphenylhydrazine	15 ug/mL
							1,3-Dichlorobenzene	15 ug/mL
							1,4-Dichlorobenzene	15 ug/mL
							1,4-Dioxane	15 ug/mL
							2,2'-oxybis[1-chloropropane]	15 ug/mL
							2,4,5-Trichlorophenol	15 ug/mL
							2,4,6-Trichlorophenol	15 ug/mL
							2,4-Dichlorophenol	15 ug/mL
							2,4-Dimethylphenol	15 ug/mL
							2,4-Dinitrophenol	30 ug/mL
							2,4-Dinitrotoluene	15 ug/mL
							2,6-Dinitrotoluene	15 ug/mL
							2-Chloronaphthalene	15 ug/mL
							2-Chlorophenol	15 ug/mL
							2-Methylnaphthalene	15 ug/mL
							2-Methylphenol	15 ug/mL
							2-Nitroaniline	15 ug/mL
							2-Nitrophenol	15 ug/mL
							3 & 4 Methylphenol	15 ug/mL
							3-Nitroaniline	15 ug/mL
							4,6-Dinitro-2-methylphenol	30 ug/mL
							4-Bromophenyl phenyl ether	15 ug/mL
							4-Chloro-3-methylphenol	15 ug/mL
							4-Chloroaniline	15 ug/mL
							4-Chlorophenyl phenyl ether	15 ug/mL
							4-Nitroaniline	15 ug/mL
							4-Nitrophenol	30 ug/mL
							Acenaphthene	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	15 ug/mL
							Acetophenone	15 ug/mL
							Aniline	15 ug/mL
							Anthracene	15 ug/mL
							Azobenzene	15 ug/mL
							Benzo[a]anthracene	15 ug/mL
							Benzo[a]pyrene	15 ug/mL
							Benzo[b]fluoranthene	15 ug/mL
							Benzo[g,h,i]perylene	15 ug/mL
							Benzo[k]fluoranthene	15 ug/mL
							Benzyl alcohol	15 ug/mL
							Bis(2-chloroethoxy)methane	15 ug/mL
							Bis(2-chloroethyl)ether	15 ug/mL
							Bis(2-ethylhexyl) phthalate	15 ug/mL
							Butyl benzyl phthalate	15 ug/mL
							Carbazole	15 ug/mL
							Chrysene	15 ug/mL
							Di-n-butyl phthalate	15 ug/mL
							Di-n-octyl phthalate	15 ug/mL
							Dibenz(a,h)anthracene	15 ug/mL
							Dibenzofuran	15 ug/mL
							Diethyl phthalate	15 ug/mL
							Dimethyl phthalate	15 ug/mL
							Fluoranthene	15 ug/mL
							Fluorene	15 ug/mL
							Hexachlorobenzene	15 ug/mL
							Hexachlorobutadiene	15 ug/mL
							Hexachlorocyclopentadiene	15 ug/mL
							Hexachloroethane	15 ug/mL
							Indeno[1,2,3-cd]pyrene	15 ug/mL
							Isophorone	15 ug/mL
							n-Decane	15 ug/mL
							N-Nitrosodi-n-propylamine	15 ug/mL
							N-Nitrosodimethylamine	15 ug/mL
							n-Octadecane	15 ug/mL
							Naphthalene	15 ug/mL
							Nitrobenzene	15 ug/mL
							Pentachlorophenol	30 ug/mL
							Phenanthrene	15 ug/mL
							Phenol	15 ug/mL
							Pyrene	15 ug/mL
							Pyridine	15 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Benzidine	30 ug/mL
							N-Nitrosodiphenylamine	30 ug/mL
							Benzoic acid	30 ug/mL
							2,4,6-Tribromophenol	15 ug/mL
							2-Fluorobiphenyl (Surr)	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol	15 ug/mL
							Nitrobenzene-d5	15 ug/mL
							Phenol-d5	15 ug/mL
							Terphenyl-d14	15 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L8 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	400 uL	1,1'-Biphenyl	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Benzoic acid	40 ug/mL
							2,4,6-Tribromophenol	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol	20 ug/mL
							Nitrobenzene-d5	20 ug/mL
							Phenol-d5	20 ug/mL
							Terphenyl-d14	20 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L9 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	500 uL	1,1'-Biphenyl	25 ug/mL
							1,2,4,5-Tetrachlorobenzene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Diphenylhydrazine	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	25 ug/mL
							2,2'-oxybis[1-chloropropane]	25 ug/mL
							2,4,5-Trichlorophenol	25 ug/mL
							2,4,6-Trichlorophenol	25 ug/mL
							2,4-Dichlorophenol	25 ug/mL
							2,4-Dimethylphenol	25 ug/mL
							2,4-Dinitrophenol	50 ug/mL
							2,4-Dinitrotoluene	25 ug/mL
							2,6-Dinitrotoluene	25 ug/mL
							2-Chloronaphthalene	25 ug/mL
							2-Chlorophenol	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	25 ug/mL
							2-Methylphenol	25 ug/mL
							2-Nitroaniline	25 ug/mL
							2-Nitrophenol	25 ug/mL
							3 & 4 Methylphenol	25 ug/mL
							3-Nitroaniline	25 ug/mL
							4,6-Dinitro-2-methylphenol	50 ug/mL
							4-Bromophenyl phenyl ether	25 ug/mL
							4-Chloro-3-methylphenol	25 ug/mL
							4-Chloroaniline	25 ug/mL
							4-Chlorophenyl phenyl ether	25 ug/mL
							4-Nitroaniline	25 ug/mL
							4-Nitrophenol	50 ug/mL
							Acenaphthene	25 ug/mL
							Acenaphthylene	25 ug/mL
							Acetophenone	25 ug/mL
							Aniline	25 ug/mL
							Anthracene	25 ug/mL
							Azobenzene	25 ug/mL
							Benzo[a]anthracene	25 ug/mL
							Benzo[a]pyrene	25 ug/mL
							Benzo[b]fluoranthene	25 ug/mL
							Benzo[g,h,i]perylene	25 ug/mL
							Benzo[k]fluoranthene	25 ug/mL
							Benzyl alcohol	25 ug/mL
							Bis(2-chloroethoxy)methane	25 ug/mL
							Bis(2-chloroethyl)ether	25 ug/mL
							Bis(2-ethylhexyl) phthalate	25 ug/mL
							Butyl benzyl phthalate	25 ug/mL
							Carbazole	25 ug/mL
							Chrysene	25 ug/mL
							Di-n-butyl phthalate	25 ug/mL
							Di-n-octyl phthalate	25 ug/mL
							Dibenz(a,h)anthracene	25 ug/mL
							Dibenzofuran	25 ug/mL
							Diethyl phthalate	25 ug/mL
							Dimethyl phthalate	25 ug/mL
							Fluoranthene	25 ug/mL
							Fluorene	25 ug/mL
							Hexachlorobenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexachlorocyclopentadiene	25 ug/mL
							Hexachloroethane	25 ug/mL
							Indeno[1,2,3-cd]pyrene	25 ug/mL
							Isophorone	25 ug/mL
							n-Decane	25 ug/mL
							N-Nitrosodi-n-propylamine	25 ug/mL
							N-Nitrosodimethylamine	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octadecane	25 ug/mL
							Naphthalene	25 ug/mL
							Nitrobenzene	25 ug/mL
							Pentachlorophenol	50 ug/mL
							Phenanthrene	25 ug/mL
							Phenol	25 ug/mL
							Pyrene	25 ug/mL
							Pyridine	25 ug/mL
							3,3'-Dichlorobenzidine	50 ug/mL
							Benzidine	50 ug/mL
							N-Nitrosodiphenylamine	50 ug/mL
							Benzoic acid	50 ug/mL
							2,4,6-Tribromophenol	25 ug/mL
							2-Fluorobiphenyl (Surr)	25 ug/mL
							2-Fluorophenol	25 ug/mL
							Nitrobenzene-d5	25 ug/mL
							Phenol-d5	25 ug/mL
							Terphenyl-d14	25 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 SS W_00003	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMLIST1 SS ST_00003	200 uL	1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Nitrophenol	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							2,4,6-Tribromophenol	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol	10 ug/mL
							Nitrobenzene-d5	10 ug/mL
							Phenol-d5	10 ug/mL
							Terphenyl-d14	10 ug/mL
.SMLIST1 SS ST_00003	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 SS S1_00003	300 uL	1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Nitrophenol	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 SS S2_00003	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SS S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1SS SUR_00002	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 SS S1_00003	08/31/15		Restek, Lot A0101390		(Purchased Reagent)		1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 SS S2_00003	08/31/15		Restek, Lot A0101625		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SS S7_00001	02/28/17		Restek, Lot A0101412		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1SS SUR_00002	09/30/18		Restek, Lot A092712		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
Tox Ultra_00005	03/20/15	09/22/14	HEXANE, Lot 78259	50 mL	Tox Ultra_00003	0.5 mL	Toxaphene	10 ug/mL
							Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.Tox Ultra_00003	02/28/17		Ultra Scientific, Lot CK-0004		(Purchased Reagent)		Toxaphene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
vm100is_stk_00019	12/16/14	06/16/14	MEOH, Lot 49909	50 mL	VMSTM520_00017	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.VMSTM520_00017	12/31/14		Ultra Scientific, Lot CH-3660		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00018	12/19/14	06/19/14	MEOH, Lot 62345	50 mL	VMstm530_00021	2 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VMstm530_00021	05/31/15		Ultra Scientific, Lot CJ-1280		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00167	08/31/14	08/24/14	MEOH, Lot na	2 mL	vm50ss_stk_00061	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00061	01/05/15	07/07/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00017	02/28/18		Restek, Lot A093505		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00062	08/31/14	08/24/14	MEOH, Lot na	3 mL	VMACROLSTD_00015	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00015	08/31/14	07/31/14	MEOH, Lot 134079	20 mL	VM568720_00002	0.25 mL	Acrolein	250 ug/mL
..VM568720_00002	10/31/14		restek, Lot A0104246		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00068	10/07/14	09/30/14	MEOH, Lot na	3 mL	VMACROLSTD_00017	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00017	10/31/14	09/30/14	MEOH, Lot +182820000062345JF	20 mL	VM568720_00002	0.25 mL	Acrolein	250 ug/mL
..VM568720_00002	10/31/14		restek, Lot A0104246		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00051	10/07/14	09/30/14	MEOH, Lot NA	2 mL	VMFASA_00012	2 mL	Acrolein	250 ug/mL
.VMFASA_00012	11/30/14	09/30/14	MEOH, Lot 134079	100 mL	VM568720S_00002	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00002	11/30/14		restek, Lot A0104657		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00057	10/04/14	09/30/14	MEOH, Lot NA	2 mL	VMFASG_00019	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00019	10/04/14	09/04/14	MEOH, Lot 0000062345	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00054	10/07/14	09/30/14	MEOH, Lot NA	2 mL	VMRFASP_00011	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
.VMRFASP_00011	10/31/14	09/30/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00005	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643S_00011	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643S_00011	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
VMRGAS_00067	08/31/14	08/24/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRGAS_00071	10/03/14	09/26/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRPRIMW_00077	08/31/14	08/24/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromoform	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00083	10/01/14	09/24/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00012	02/29/16	restek, Lot A093581			(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00017	12/31/15	restek, Lot A092294			(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16	restek, Lot A093368			(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16	restek, Lot A093368			(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCBODLCS_00033	07/31/16	LabChem, Lot D197-01			(Purchased Reagent)		Biochemical Oxygen Demand	9.9 mg/mL
WCCN.1CCV1_00175	10/09/14	10/02/14	NAOH, Lot 1679857	100 mL	WCCN10PPM1_00175	1 mL	Cyanide, Total	0.1 mg/L
.WCCN10PPM1_00175	10/09/14	10/02/14	NAOH, Lot 1679857	100 mL	WCCN1000PPM_00020	1 mL	Cyanide, Total	10 mg/L
..WCCN1000PPM_00020	10/29/14	LABCHEM, Lot D111-14			(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCCN10PPM1_00175	10/09/14	10/02/14	NAOH, Lot 1679857	100 mL	WCCN1000PPM_00020	1 mL	Cyanide, Free	10 mg/L
							Cyanide, Non-amenable	10 mg/L
							Cyanide, Total	10 mg/L
							Cyanide, Weak Acid Dissociable	10 mg/L
.WCCN1000PPM_00020	10/29/14	LABCHEM, Lot D111-14			(Purchased Reagent)		Cyanide, Free	1000 mg/L
							Cyanide, Non-amenable	1000 mg/L
							Cyanide, Total	1000 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyanide, Weak Acid Dissociable	1000 mg/L
WCCN1PPMMSD2_00193	10/09/14	10/02/14	NAOH, Lot 1679857	200 mL	WCCN10PPM2_00180	20 mL	Cyanide, Free	1 mg/L
							Cyanide, Non-amenable	1 mg/L
							Cyanide, Total	1 mg/L
							Cyanide, Weak Acid Dissociable	1 mg/L
.WCCN10PPM2_00180	10/09/14	10/02/14	NAOH, Lot 1679857	100 mL	WCCN1000PPM_00021	1 mL	Cyanide, Free	10 mg/L
							Cyanide, Non-amenable	10 mg/L
							Cyanide, Total	10 mg/L
							Cyanide, Weak Acid Dissociable	10 mg/L
..WCCN1000PPM_00021	01/24/15	LABCHEM, Lot D199-09			(Purchased Reagent)		Cyanide, Free	1000 mg/L
							Cyanide, Non-amenable	1000 mg/L
							Cyanide, Total	1000 mg/L
							Cyanide, Weak Acid Dissociable	1000 mg/L
WCCOD1000_00011	03/31/15	HACH, Lot A4072			(Purchased Reagent)		Chemical Oxygen Demand	1000 ppm
WCERAPHEN0L_00015	01/31/16	ERA, Lot P217-502			(Purchased Reagent)		Cyanide, Total	0.921 mg/L
							Phenols, Total	0.702 mg/L
wchemlcs_00077	10/17/14	09/17/14	ACETONE, Lot K42E14	200 mL	WCHEMHEXADECA_00006	0.4 g	HEM (Oil & Grease)	4000 mg/L
							HEM Polar (Oil and Grease - Polar)	4000 mg/L
					WCHEMSTEARIC_00004	0.4 g	(HEM) - (SGT-HEM)	2000 mg/L
							HEM (Oil & Grease)	4000 mg/L
							HEM Polar (Oil and Grease - Polar)	4000 mg/L
							SGT HEM (Oil and Grease - Nonpolar)	2000 mg/L
							SGT-HEM	2000 mg/L
.WCHEMHEXADECA_00006	11/05/15	Alfa Aesar, Lot K24W010			(Purchased Reagent)		HEM (Oil & Grease)	1 g/g
							HEM Polar (Oil and Grease - Polar)	1 g/g
.WCHEMSTEARIC_00004	03/28/18	ALFA AESAR, Lot I29X007			(Purchased Reagent)		(HEM) - (SGT-HEM)	1 g/g
							HEM (Oil & Grease)	1 g/g
							HEM Polar (Oil and Grease - Polar)	1 g/g
							SGT HEM (Oil and Grease - Nonpolar)	1 g/g
							SGT-HEM	1 g/g
WCNH31000_00029	05/23/16	LabChem, Lot D136-23			(Purchased Reagent)		Ammonia	1000 mg/L as NH3
							Nitrogen, Kjeldahl	1000 mg/L as NH3
WCPH7_00042	04/30/15	Fisher Scientific, Lot 132908			(Purchased Reagent)		pH	7 SU
WCPHENOVSOLID_00008	02/28/17	PHENOVA- WIBBY, Lot 8142-09			(Purchased Reagent)		Total Suspended Solids	99.3 mg/L
WCPHLCS_00009	06/30/16	Phenova, Lot 8135-15B			(Purchased Reagent)		pH	7.09 SU
WCPHOS50PPM_00052	10/26/14	09/26/14	DIWATER, Lot 2222	100 mL	WCPHOSPHATE_00003	5 mL	Orthophosphate as P	50 mg/L
							Phosphorus as PO4	153.5 mg/L
							Total Phosphorus as P	50 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.WCPHOSPHATE_00003	11/19/14	LABCHEM, Lot B321-26			(Purchased Reagent)		Orthophosphate as P	1000 mg/L
							Phosphorus as PO4	3070 mg/L
							Total Phosphorus as P	1000 mg/L
WCWIBBYNUTRIE_00021	02/05/15	WIBBY, Lot 8904-11			(Purchased Reagent)		Nitrogen, Kjeldahl	24.9 mg/L
							Phosphorus as PO4	9.6 mg/L
							Total Phosphorus as P	3.13 mg/L
							Total Phosphorus as PO4	9.6 mg/L

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-42475-1
Project/Site: LM MRC Block E MPE System O&M

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DCA #	BFB #
DSP-1-092914 GRAB	240-42475-1	111	84
	MB 240-149656/5	103	82
	LCS 240-149656/6	106	89
	190-5340-B-12 MS	103	84

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab File ID: UX946183.D Lab Sample ID: MB 240-149656/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX9 Date Analyzed: 10/01/2014 18:18

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 240-149656/6	UX946184.D	10/01/2014 18:41
DSP-1-092914 GRAB	240-42475-1	UX946191.D	10/01/2014 21:20
	190-5340-B-12 MS	UX946205.D	10/02/2014 02:33

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab File ID: BFB2778.D BFB Injection Date: 08/26/2014

Instrument ID: A3UX9 BFB Injection Time: 17:58

Analysis Batch No.: 144562

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.9	
75	30.0 - 60.0 % of mass 95	51.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.2	(0.2)1
174	50.0 - 120.00 % of mass 95	87.2	
175	5.0 - 9.0 % of mass 174	6.9	(8.0)1
176	95.0 - 101.0 % of mass 174	83.7	(95.9)1
177	5.0 - 9.0 % of mass 176	5.8	(6.9)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 240-144562/3	UX945648.D	08/26/2014	18:31
	STD8260 240-144562/4	UX945649.D	08/26/2014	18:54
	STD8260 240-144562/5	UX945650.D	08/26/2014	19:17
	STD8260 240-144562/6	UX945651.D	08/26/2014	19:40
	STD8260 240-144562/33	UX945656.D	08/26/2014	21:33
	STD8260 240-144562/34	UX945657.D	08/26/2014	21:55

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab File ID: BFB2806.D BFB Injection Date: 10/01/2014

Instrument ID: A3UX9 BFB Injection Time: 17:08

Analysis Batch No.: 149656

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.3	
75	30.0 - 60.0 % of mass 95	49.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.4	(0.5)1
174	50.0 - 120.00 % of mass 95	86.6	
175	5.0 - 9.0 % of mass 174	5.6	(6.5)1
176	95.0 - 101.0 % of mass 174	84.2	(97.1)1
177	5.0 - 9.0 % of mass 176	5.3	(6.3)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 240-149656/3	UX946181.D	10/01/2014	17:34
	STDA9 240-149656/4	UX946182.D	10/01/2014	17:57
	MB 240-149656/5	UX946183.D	10/01/2014	18:18
	LCS 240-149656/6	UX946184.D	10/01/2014	18:41
DSP-1-092914 GRAB	240-42475-1	UX946191.D	10/01/2014	21:20
	190-5340-B-12 MS	UX946205.D	10/02/2014	02:33

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: STD8260 240-144562/5 Date Analyzed: 08/26/2014 19:17

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX945650.D Heated Purge: (Y/N) N

Calibration ID: 24011

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1047861	5.57	883882	8.32	410140	10.58
UPPER LIMIT		2095722	6.07	1767764	8.82	820280	11.08
LOWER LIMIT		523931	5.07	441941	7.82	205070	10.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
STD8260 240-149656/3 CCVIS		913432	5.57	813081	8.32	449085	10.58

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 624

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: STD8260 240-149656/3 Date Analyzed: 10/01/2014 17:34

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX946181.D Heated Purge: (Y/N) N

Calibration ID: 24011

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		913432	5.57	813081	8.32	449085	10.58
UPPER LIMIT		1826864	6.07	1626162	8.82	898170	11.08
LOWER LIMIT		456716	5.07	406541	7.82	224543	10.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
STDA9 240-149656/4 CCV		854922	5.57	761769	8.32	368640	10.59
MB 240-149656/5		773779	5.57	706451	8.32	350979	10.58
LCS 240-149656/6		789422	5.57	716220	8.32	421646	10.58
240-42475-1	DSP-1-092914 GRAB	761749	5.57	717983	8.32	369736	10.58
190-5340-B-12 MS		904580	5.57	793415	8.33	429227	10.59

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: DSP-1-092914 GRAB | Lab Sample ID: 240-42475-1

Matrix: Water | Lab File ID: UX946191.D

Analysis Method: 624 | Date Collected: 09/29/2014 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2014 21:20

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.: 149656 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.17	U	1.0	0.17
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
110-75-8	2-Chloroethyl vinyl ether	1.2	U	2.0	1.2
107-02-8	Acrolein	1.4	U	20	1.4
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.24	U	1.0	0.24
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	2.0	0.63
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.33	U	2.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
75-09-2	Methylene Chloride	0.28	U	2.0	0.28
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	0.50	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Client Sample ID: DSP-1-092914 GRAB Lab Sample ID: 240-42475-1

Matrix: Water Lab File ID: UX946191.D

Analysis Method: 624 Date Collected: 09/29/2014 12:00

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2014 21:20

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.: 149656 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		80-125
460-00-4	4-Bromofluorobenzene (Surr)	84		80-120

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton | Job No.: 240-42475-1 | Analy Batch No.: 144562

SDG No.:

Instrument ID: A3UX9 | GC Column: DB-624 | ID: 0.18(mm) | Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2014 18:31 | Calibration End Date: 08/26/2014 21:55 | Calibration ID: 24011

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-144562/34	UX945657.D
Level 2	STD8260 240-144562/33	UX945656.D
Level 3	STD8260 240-144562/6	UX945651.D
Level 4	STD8260 240-144562/5	UX945650.D
Level 5	STD8260 240-144562/4	UX945649.D
Level 6	STD8260 240-144562/3	UX945648.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	0.5927 0.5725	0.4354	0.5376	0.4666	0.4236	Ave		0.5047				14.0		35.0			
Chloromethane	0.4743 0.4419	0.4870	0.5428	0.5115	0.5156	Ave		0.4955				7.2		35.0			
Vinyl chloride	0.4699 0.5301	0.5082	0.5877	0.5050	0.5246	Ave		0.5209				7.5		35.0			
Bromomethane	0.3081 0.4007	0.2929	0.3417	0.3445	0.3816	Ave		0.3449				12.0		35.0			
Chloroethane	0.3326 0.4005	0.2773	0.3602	0.3560	0.3833	Ave		0.3517				12.0		35.0			
Dichlorofluoromethane	0.6320 0.7524	0.6770	0.7603	0.7059	0.7974	Ave		0.7208				8.4		35.0			
Trichlorofluoromethane	0.2699	0.3423	0.6784	0.6137	0.6181	Lin1	-0.203	0.6332							0.9980		0.9900
Ethyl ether	0.3319 0.3126	0.3249	0.3034	0.3321	0.3311	Ave		0.3227				3.7		35.0			
Acrolein	0.0512 0.0577	0.0590	0.0556	0.0535	0.0562	Ave		0.0555				5.1		35.0			
1,1-Dichloroethene	0.7021 0.7483	0.6612	0.6897	0.6755	0.7765	Ave		0.7089				6.3		35.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4485 0.4531	0.3820	0.3743	0.3255	0.4252	Ave		0.4014				12.0		35.0			
Acetone	+++++ 0.1215	0.2413	0.1021	0.1139	0.1151	Lin1	0.2005	0.1150							0.9950		0.9900
Iodomethane	0.5720 0.6388	0.5402	0.5950	0.6114	0.6611	Ave		0.6031				7.3		35.0			
Carbon disulfide	+++++ 1.5253	1.1754	1.2314	1.1887	1.5734	Ave		1.3389				14.0		35.0			
Methyl acetate	+++++ 0.2623	0.2759	0.2505	0.2533	0.2674	Ave		0.2619				4.0		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 144562

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2014 18:31 Calibration End Date: 08/26/2014 21:55 Calibration ID: 24011

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								
Methylene Chloride	+++++ 0.5114	0.9036	0.5234	0.4912	0.5323	Ave		0.5924				29.0		35.0			
2-Methyl-2-propanol	0.0325 0.0354	0.0369	0.0364	0.0374	0.0371	Ave		0.0360				5.1		35.0			
Acrylonitrile	0.1269 0.1355	0.1242	0.1284	0.1316	0.1402	Ave		0.1312				4.5		35.0			
Methyl tert-butyl ether	1.1184 1.1309	1.0088	1.0745	1.1283	1.1917	Ave		1.1088				5.6		35.0			
trans-1,2-Dichloroethene	0.3809 0.5023	0.4566	0.4508	0.4759	0.5305	Ave		0.4662				11.0		35.0			
Hexane	0.3987 0.3769	0.3607	0.2872	0.2903	0.3441	Ave		0.3430				13.0		35.0			
1,1-Dichloroethane	0.4127 0.4305	0.4548	0.5121	0.4926	0.5397	Ave		0.4737				10.0		35.0			
Vinyl acetate	+++++ 0.4825	0.4963	0.4450	0.4768	0.5345	Ave		0.4870				6.7		35.0			
cis-1,2-Dichloroethene	0.5239 0.4314	0.4903	0.4413	0.4512	0.4987	Ave		0.4728				7.8		35.0			
2,2-Dichloropropane	0.1605 0.1890	0.2094	0.2107	0.2146	0.2251	Ave		0.2015				12.0		35.0			
2-Butanone (MEK)	0.2018 0.1303	0.1959	0.1342	0.1357	0.1402	Ave		0.1563				21.0		35.0			
Chlorobromomethane	0.3122 0.2402	0.2692	0.2545	0.2703	0.2832	Ave		0.2716				9.1		35.0			
Chloroform	0.6454 0.5773	0.6059	0.5649	0.5856	0.6200	Ave		0.5998				5.0		35.0			
1,1,1-Trichloroethane	0.3366 0.3752	0.2959	0.3525	0.3617	0.4066	Ave		0.3548				11.0		35.0			
Cyclohexane	+++++ 0.5361	0.4332	0.4126	0.4238	0.5043	Ave		0.4620				12.0		35.0			
1,1-Dichloropropene	0.5191 0.4309	0.4091	0.3986	0.4101	0.4499	Ave		0.4363				10.0		35.0			
Carbon tetrachloride	0.3677 0.4719	0.3605	0.4166	0.3968	0.4706	Ave		0.4140				12.0		35.0			
Isobutyl alcohol	+++++ 0.0100	0.0103	0.0097	0.0085	0.0110	Ave		0.0099				9.3		35.0			
Benzene	1.2435 1.3738	1.4856	1.4132	1.4140	1.4768	Ave		1.4012				6.3		35.0			
1,2-Dichloroethane	0.5084 0.4437	0.4836	0.4522	0.4319	0.4898	Ave		0.4683				6.4		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 144562

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2014 18:31 Calibration End Date: 08/26/2014 21:55 Calibration ID: 24011

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								
Trichloroethene	0.3764 0.3495	0.3574	0.3799	0.3914	0.3955	Ave		0.3750				4.9		35.0			
Methylcyclohexane	0.5505 0.4801	0.5364	0.4212	0.4084	0.4799	Ave		0.4794				12.0		35.0			
1,2-Dichloropropane	0.2718 0.3097	0.3266	0.3367	0.3262	0.3433	Ave		0.3190				8.1		35.0			
Dibromomethane	0.2076 0.2448	0.2368	0.2363	0.2500	0.2554	Ave		0.2385				7.1		35.0			
Dichlorobromomethane	0.5449 0.4626	0.4134	0.4538	0.4917	0.5091	Ave		0.4793				9.6		35.0			
2-Chloroethyl vinyl ether	0.2279 0.2290	0.2043	0.2242	0.2305	0.2412	Ave		0.2262				5.4		35.0			
cis-1,3-Dichloropropene	0.5680 0.5415	0.5059	0.5634	0.5827	0.5864	Ave		0.5580				5.4		35.0			
4-Methyl-2-pentanone (MIBK)	0.3440 0.2882	0.2613	0.2756	0.2964	0.3082	Ave		0.2956				9.7		35.0			
Toluene	1.7945 1.9306	1.8779	1.9606	1.9221	2.0931	Ave		1.9298				5.1		35.0			
trans-1,3-Dichloropropene	0.6762 0.6532	0.5835	0.6029	0.6348	0.6805	Ave		0.6385				6.2		35.0			
Ethyl methacrylate	0.4802 0.5529	0.4806	0.4941	0.5024	0.5687	Ave		0.5132				7.4		35.0			
1,1,2-Trichloroethane	0.4625 0.4155	0.3872	0.4096	0.4258	0.4520	Ave		0.4254				6.6		35.0			
Tetrachloroethene	0.5000 0.4512	0.4448	0.4269	0.4223	0.4762	Ave		0.4536				6.6		35.0			
1,3-Dichloropropane	0.8298 0.7233	0.7444	0.7429	0.7475	0.7823	Ave		0.7617				5.1		35.0			
2-Hexanone	0.2441 0.2587	0.2568	0.2561	0.2411	0.2808	Ave		0.2563				5.5		35.0			
Chlorodibromomethane	0.4628 0.4732	0.4365	0.4741	0.4658	0.5095	Ave		0.4703				5.0		35.0			
Ethylene Dibromide	0.4034 0.4319	0.4497	0.4458	0.4470	0.4639	Ave		0.4403				4.7		35.0			
Chlorobenzene	1.4048 1.2689	1.2990	1.3403	1.3164	1.3937	Ave		1.3372				4.0		35.0			
1,1,1,2-Tetrachloroethane	0.5277 0.4728	0.5220	0.4636	0.4585	0.5015	Ave		0.4910				6.1		35.0			
Ethylbenzene	0.6248 0.6734	0.6139	0.6520	0.6580	0.7287	Ave		0.6585				6.2		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 144562

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2014 18:31 Calibration End Date: 08/26/2014 21:55 Calibration ID: 24011

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	0.8725 0.8291	0.8370	0.8027	0.8196	0.8951	Ave		0.8426				4.1		35.0			
o-Xylene	0.7911 0.8415	0.8604	0.8296	0.8202	0.9159	Ave		0.8431				5.0		35.0			
Styrene	1.1904 1.4234	1.0566	1.3644	1.3928	1.5300	Ave		1.3263				13.0		35.0			
Bromoform	+++++ 0.3526	0.2607	0.3062	0.3069	0.3694	Ave		0.3192				13.0		35.0			
Isopropylbenzene	1.8959 1.8908	1.7385	1.8963	1.8817	2.1001	Ave		1.9006				6.1		35.0			
1,1,2,2-Tetrachloroethane	1.3879 1.0898	1.2311	1.1524	1.2056	1.1901	Ave		1.2095				8.3		35.0			
Bromobenzene	1.3052 1.0717	1.2714	1.1455	1.2540	1.1734	Ave		1.2036				7.4		35.0			
1,2,3-Trichloropropane	0.3719 0.3995	0.5225	0.4581	0.4597	0.4444	Ave		0.4427				12.0		35.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3386	0.3438	0.3474	0.3805	0.3617	Ave		0.3544				4.8		35.0			
N-Propylbenzene	1.1470 1.0193	1.1146	1.0882	1.1265	1.1354	Ave		1.1052				4.2		35.0			
2-Chlorotoluene	0.6842 0.8960	1.0568	0.9594	1.0658	1.0364	Ave		0.9498				15.0		35.0			
1,3,5-Trimethylbenzene	3.4788 2.9150	3.2318	3.2033	3.4028	3.3490	Ave		3.2635				6.1		35.0			
4-Chlorotoluene	1.2190 0.9970	1.1921	1.1116	1.0880	1.1131	Ave		1.1201				7.1		35.0			
tert-Butylbenzene	3.3602 2.5123	2.9046	2.7277	2.8979	2.9264	Ave		2.8882				9.7		35.0			
1,2,4-Trimethylbenzene	3.5864 3.1386	3.5480	3.3291	3.5840	3.5279	Ave		3.4523				5.2		35.0			
sec-Butylbenzene	0.9896 0.8108	0.8886	0.8909	0.8723	0.8990	Ave		0.8919				6.5		35.0			
1,3-Dichlorobenzene	2.2832 1.9525	2.2019	2.0807	2.1158	2.1582	Ave		2.1321				5.3		35.0			
4-Isopropyltoluene	3.8533 3.2377	3.7163	3.4857	3.5800	3.6456	Ave		3.5864				5.9		35.0			
1,4-Dichlorobenzene	2.3578 2.0226	2.2020	2.1051	2.1586	2.2300	Ave		2.1794				5.2		35.0			
n-Butylbenzene	3.7991 2.7504	3.4552	2.9226	3.0176	3.0668	Ave		3.1686				12.0		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 144562

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2014 18:31 Calibration End Date: 08/26/2014 21:55 Calibration ID: 24011

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	2.4672 1.9932	2.2684	2.0865	2.1747	2.0981	Ave		2.1814				7.7		35.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.2664	0.2550	0.2638	0.2741	0.2733	Ave		0.2665				2.9		35.0			
1,2,4-Trichlorobenzene	1.6035 1.1330	1.6213	1.3115	1.3803	1.3074	Ave		1.3928				14.0		35.0			
Hexachlorobutadiene	1.0430 0.4872	0.9219	0.6499	0.5970	0.5556	Ave		0.7091				31.0		35.0			
Naphthalene	3.9061 3.1332	3.6636	3.3027	3.5264	3.4664	Ave		3.4997				7.7		35.0			
1,2,3-Trichlorobenzene	1.7790 1.0377	1.2360	1.1492	1.2315	1.1648	Ave		1.2664				21.0		35.0			
1,2-Dichloroethane-d4 (Surr)	0.3625 0.3735	0.3867	0.3857	0.3631	0.4024	Ave		0.3790				4.1		35.0			
Toluene-d8 (Surr)	1.7227 1.6947	1.7071	1.7862	1.7115	1.7956	Ave		1.7363				2.5		35.0			
4-Bromofluorobenzene (Surr)	0.7143 0.6063	0.6706	0.6801	0.6041	0.6939	Ave		0.6616				7.0		35.0			

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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 144562

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2014 18:31 Calibration End Date: 08/26/2014 21:55 Calibration ID: 24011

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-144562/34	UX945657.D
Level 2	STD8260 240-144562/33	UX945656.D
Level 3	STD8260 240-144562/6	UX945651.D
Level 4	STD8260 240-144562/5	UX945650.D
Level 5	STD8260 240-144562/4	UX945649.D
Level 6	STD8260 240-144562/3	UX945648.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	14253 2454033	21710	264850	488970	894385	0.500 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	11407 1894236	24280	267411	536011	1088454	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	11301 2272248	25341	289511	529184	1107616	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	7410 1717584	14605	168323	360943	805662	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	7999 1716731	13826	177463	373082	809218	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	15200 3225346	33754	374551	739652	1683413	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Lin1	6491	17066	334205	643108	1304966	0.500	1.00	10.0	20.0	40.0
Ethyl ether	FB	Ave	7981 1339934	16202	149448	347960	699048	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	6156 1235702	14704	136865	280152	593134	2.50 400	5.00	50.0	100	200
1,1-Dichloroethene	FB	Ave	16885 3207722	32970	339783	707869	1639343	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	10785 1942217	19045	184394	341063	897630	0.500 80.0	1.00	10.0	20.0	40.0
Acetone	FB	Lin1	+++++ 1041359	24064	100582	238742	485822	+++++ 160	2.00	20.0	40.0	80.0
Iodomethane	FB	Ave	13756 2738289	26936	293134	640685	1395679	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	+++++ 6538385	58608	606617	1245594	3321845	+++++ 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	+++++ 5621757	68778	617106	1326977	2822735	+++++ 400	5.00	50.0	100	200
Methylene Chloride	FB	Ave	+++++ 2192304	45054	257859	514711	1123847	+++++ 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 144562

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2014 18:31 Calibration End Date: 08/26/2014 21:55 Calibration ID: 24011

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methyl-2-propanol	FB	Ave	7819 1517571	18397	179557	392129	784226	5.00 800	10.0	100	200	400
Acrylonitrile	FB	Ave	30529 5809663	61927	632488	1379249	2960293	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	26896 4847710	50297	529344	1182296	2515963	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	9160 2153225	22765	222079	498681	1119927	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	9589 1615448	17987	141492	304231	726473	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	9924 1845315	22674	252270	516135	1139379	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	+++++ 1985471	23754	210459	479656	1083277	+++++ 76.8	0.960	9.60	19.2	38.4
cis-1,2-Dichloroethene	FB	Ave	12600 1849070	24445	217399	472769	1052850	0.500 80.0	1.00	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	3859 810113	10441	103816	224825	475312	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	9704 1116785	19540	132184	284366	592059	1.00 160	2.00	20.0	40.0	80.0
Chlorobromomethane	FB	Ave	7509 1029800	13423	125387	283210	597961	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	15521 2474819	30210	278292	613591	1308900	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	8095 1608548	14756	173668	378990	858451	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	+++++ 2298247	21600	203267	444082	1064578	+++++ 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	12484 1847061	20398	196387	429760	949799	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	8842 2022873	17974	205232	415807	993556	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	+++++ 1072786	12891	118907	222986	580731	+++++ 2000	25.0	250	500	1000
Benzene	FB	Ave	29906 5888837	74073	696199	1481629	3117885	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	12226 1902035	24114	222776	452610	1034121	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	9053 1497965	17821	187166	410176	834977	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	13238 2057922	26743	207490	427909	1013102	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 144562

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2014 18:31 Calibration End Date: 08/26/2014 21:55 Calibration ID: 24011

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	6537 1327447	16286	165866	341793	724759	0.500 80.0	1.00	10.0	20.0	40.0
Dibromomethane	FB	Ave	4993 1049168	11807	116408	261959	539248	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	13105 1983128	20613	223570	515188	1074816	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	10962 1963386	20374	220861	483017	1018519	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	13660 2321376	25225	277546	610594	1238097	0.500 80.0	1.00	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	16544 2470922	26056	271526	621189	1301286	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	33489 6518086	73274	777481	1698898	3466894	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	12620 2205141	22768	239070	561072	1127224	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl methacrylate	CBZ	Ave	8962 1866791	18754	195927	444106	942032	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	8632 1402621	15108	162415	376367	748660	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	9332 1523170	17357	169292	373265	788738	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	15487 2441849	29047	294614	660666	1295762	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	9110 1746768	20043	203149	426125	930184	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	8637 1597575	17032	188008	411715	843934	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	7529 1458193	17548	176769	395069	768459	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	26217 4283947	50685	531522	1163575	2308511	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	9848 1596242	20369	183842	405244	830649	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	11660 2273394	23956	258561	581572	1206980	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	16283 2798990	32659	318329	724387	1482560	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	14764 2841118	33571	328996	724962	1517098	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	22215 4805443	41230	541078	1231046	2534174	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 144562

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2014 18:31 Calibration End Date: 08/26/2014 21:55 Calibration ID: 24011

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	+++++ 1190454	10174	121429	271228	611857	+++++ 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	35382 6383663	67837	751981	1663194	3478529	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	11743 1962996	21721	230466	494465	1067598	0.500 80.0	1.00	10.0	20.0	40.0
Bromobenzene	DCB	Ave	11043 1930426	22433	229096	514332	1052683	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichloropropane	DCB	Ave	3147 719650	9219	91621	188538	398681	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 609800	6066	69480	156045	324460	+++++ 80.0	1.00	10.0	20.0	40.0
N-Propylbenzene	DCB	Ave	9705 1835930	19666	217621	462006	1018588	0.500 80.0	1.00	10.0	20.0	40.0
2-Chlorotoluene	DCB	Ave	5789 1613930	18647	191878	437143	929728	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	29434 5250478	57023	640629	1395629	3004354	0.500 80.0	1.00	10.0	20.0	40.0
4-Chlorotoluene	DCB	Ave	10314 1795860	21033	222302	446233	998523	0.500 80.0	1.00	10.0	20.0	40.0
tert-Butylbenzene	DCB	Ave	28430 4525228	51249	545513	1188555	2625208	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	30344 5653201	62601	665780	1469958	3164809	0.500 80.0	1.00	10.0	20.0	40.0
sec-Butylbenzene	DCB	Ave	8373 1460345	15679	178179	357759	806438	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	19318 3516891	38850	416130	867790	1936086	0.500 80.0	1.00	10.0	20.0	40.0
4-Isopropyltoluene	DCB	Ave	32602 5831808	65572	697112	1468291	3270434	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dichlorobenzene	DCB	Ave	19949 3643178	38853	421009	885312	2000522	0.500 80.0	1.00	10.0	20.0	40.0
n-Butylbenzene	DCB	Ave	32144 4954076	60964	584502	1237630	2751201	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	20875 3590120	40024	417279	891948	1882218	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 479931	4500	52765	112408	245137	+++++ 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	13567 2040736	28607	262283	566117	1172866	0.500 80.0	1.00	10.0	20.0	40.0
Hexachlorobutadiene	DCB	Ave	8825 877465	16266	129967	244872	498383	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 144562

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/26/2014 18:31 Calibration End Date: 08/26/2014 21:55 Calibration ID: 24011

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Naphthalene	DCB	Ave	33049 5643509	64641	660500	1446300	3109673	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCB	Ave	15052 1869188	21808	229824	505080	1044943	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	8718 1601186	19282	190021	380449	849440	0.500 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	32149 5721510	66612	708334	1512754	2974215	0.500 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	13331 2046899	26166	269682	533978	1149401	0.500 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: STD8260 240-149656/3 Calibration Date: 10/01/2014 17:34

Instrument ID: A3UX9 Calib Start Date: 08/26/2014 18:31

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2014 21:55

Lab File ID: UX946181.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	0.5047	0.6434		0.0255	0.0200	27.5	
Chloromethane	Ave	0.4955	0.5354		0.0216	0.0200	8.1	99.0
Vinyl chloride	Ave	0.5209	0.6048		0.0232	0.0200	16.1	96.0
Bromomethane	Ave	0.3449	0.4085		0.0237	0.0200	18.4	86.0
Chloroethane	Ave	0.3517	0.4000		0.0227	0.0200	13.7	62.0
Dichlorofluoromethane	Ave	0.7208	0.8447		0.0234	0.0200	17.2	
Trichlorofluoromethane	Lin1		0.8061		0.0258	0.0200	28.9	52.0
Ethyl ether	Ave	0.3227	0.2799		0.0173	0.0200	-13.3	
Acrolein	Ave	0.0555	0.0355		0.0639	0.100	-36.1	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.4014	0.3085		0.0154	0.0200	-23.1	
1,1-Dichloroethene	Ave	0.7089	0.5448		0.0154	0.0200	-23.2	49.0
Acetone	Lin1		0.1092		0.0362	0.0400	-9.4	
Iodomethane	Ave	0.6031	0.5173		0.0172	0.0200	-14.2	
Carbon disulfide	Ave	1.339	0.4869		0.00727	0.0200	-63.6	
Methyl acetate	Ave	0.2619	0.2474		0.0945	0.100	-5.5	
Methylene Chloride	Ave	0.5924	0.4861		0.0164	0.0200	-17.9	39.0
2-Methyl-2-propanol	Ave	0.0360	0.0409		0.227	0.200	13.6	
Acrylonitrile	Ave	0.1312	0.1354		0.206	0.200	3.2	
Methyl tert-butyl ether	Ave	1.109	1.160		0.0209	0.0200	4.6	
trans-1,2-Dichloroethene	Ave	0.4662	0.4658		0.0200	0.0200	-0.0	30.0
Hexane	Ave	0.3430	0.2193		0.0128	0.0200	-36.1	
1,1-Dichloroethane	Ave	0.4737	0.6061		0.0256	0.0200	27.9*	27.0
Vinyl acetate	Ave	0.4870	0.4347		0.0171	0.0192	-10.7	
cis-1,2-Dichloroethene	Ave	0.4728	0.5109		0.0216	0.0200	8.1	
2,2-Dichloropropane	Ave	0.2015	0.2334		0.0232	0.0200	15.8	
2-Butanone (MEK)	Ave	0.1563	0.1414		0.0362	0.0400	-9.6	
Chlorobromomethane	Ave	0.2716	0.2787		0.0205	0.0200	2.6	
Chloroform	Ave	0.5998	0.6702		0.0223	0.0200	11.7	33.0
1,1,1-Trichloroethane	Ave	0.3548	0.4599		0.0259	0.0200	29.6*	25.0
Cyclohexane	Ave	0.4620	0.3899		0.0169	0.0200	-15.6	
1,1-Dichloropropene	Ave	0.4363	0.4396		0.0202	0.0200	0.8	
Carbon tetrachloride	Ave	0.4140	0.4718		0.0228	0.0200	14.0	27.0
Isobutyl alcohol	Ave	0.0099	0.0096		0.487	0.500	-2.7	
Benzene	Ave	1.401	1.550		0.0221	0.0200	10.6	36.0
1,2-Dichloroethane	Ave	0.4683	0.5089		0.0217	0.0200	8.7	32.0
Trichloroethene	Ave	0.3750	0.4342		0.0232	0.0200	15.8	33.0
Methylcyclohexane	Ave	0.4794	0.4097		0.0171	0.0200	-14.5	
1,2-Dichloropropane	Ave	0.3190	0.3626		0.0227	0.0200	13.6	66.0
Dibromomethane	Ave	0.2385	0.2898		0.0243	0.0200	21.5	
Dichlorobromomethane	Ave	0.4793	0.5326		0.0222	0.0200	11.1	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: STD8260 240-149656/3 Calibration Date: 10/01/2014 17:34

Instrument ID: A3UX9 Calib Start Date: 08/26/2014 18:31

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2014 21:55

Lab File ID: UX946181.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	0.2262	0.2521		0.0446	0.0400	11.5	99.0
cis-1,3-Dichloropropene	Ave	0.5580	0.6375		0.0229	0.0200	14.3	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2956	0.3031		0.0410	0.0400	2.5	
Toluene	Ave	1.930	2.028		0.0210	0.0200	5.1	26.0
trans-1,3-Dichloropropene	Ave	0.6385	0.6420		0.0201	0.0200	0.5	50.0
Ethyl methacrylate	Ave	0.5132	0.4985		0.0194	0.0200	-2.9	
1,1,2-Trichloroethane	Ave	0.4254	0.4499		0.0212	0.0200	5.8	29.0
Tetrachloroethene	Ave	0.4536	0.4481		0.0198	0.0200	-1.2	26.0
1,3-Dichloropropane	Ave	0.7617	0.7752		0.0204	0.0200	1.8	
2-Hexanone	Ave	0.2563	0.2348		0.0367	0.0400	-8.4	
Chlorodibromomethane	Ave	0.4703	0.4788		0.0204	0.0200	1.8	33.0
Ethylene Dibromide	Ave	0.4403	0.4486		0.0204	0.0200	1.9	
Chlorobenzene	Ave	1.337	1.366		0.0204	0.0200	2.1	34.0
1,1,1,2-Tetrachloroethane	Ave	0.4910	0.4815		0.0196	0.0200	-1.9	
Ethylbenzene	Ave	0.6585	0.7023		0.0213	0.0200	6.7	41.0
m-Xylene & p-Xylene	Ave	0.8426	0.8541		0.0203	0.0200	1.4	
o-Xylene	Ave	0.8431	0.8636		0.0205	0.0200	2.4	
Styrene	Ave	1.326	1.459		0.0220	0.0200	10.0	
Bromoform	Ave	0.3192	0.3278		0.0205	0.0200	2.7	29.0
Isopropylbenzene	Ave	1.901	1.962		0.0206	0.0200	3.2	
1,1,2,2-Tetrachloroethane	Ave	1.209	1.074		0.0178	0.0200	-11.2	39.0
Bromobenzene	Ave	1.204	1.150		0.0191	0.0200	-4.5	
1,2,3-Trichloropropane	Ave	0.4427	0.3890		0.0176	0.0200	-12.1	
trans-1,4-Dichloro-2-butene	Ave	0.3544	0.2836		0.0160	0.0200	-20.0	
N-Propylbenzene	Ave	1.105	1.015		0.0184	0.0200	-8.1	
2-Chlorotoluene	Ave	0.9498	0.9297		0.0196	0.0200	-2.1	
1,3,5-Trimethylbenzene	Ave	3.263	2.983		0.0183	0.0200	-8.6	
4-Chlorotoluene	Ave	1.120	0.998		0.0178	0.0200	-10.9	
tert-Butylbenzene	Ave	2.888	2.567		0.0178	0.0200	-11.1	
1,2,4-Trimethylbenzene	Ave	3.452	3.199		0.0185	0.0200	-7.3	
sec-Butylbenzene	Ave	0.8919	0.7731		0.0173	0.0200	-13.3	
1,3-Dichlorobenzene	Ave	2.132	2.024		0.0190	0.0200	-5.0	27.0
4-Isopropyltoluene	Ave	3.586	3.150		0.0176	0.0200	-12.2	
1,4-Dichlorobenzene	Ave	2.179	2.100		0.0193	0.0200	-3.6	37.0
n-Butylbenzene	Ave	3.169	2.429		0.0153	0.0200	-23.3	
1,2-Dichlorobenzene	Ave	2.181	1.939		0.0178	0.0200	-11.1	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.2665	0.2273		0.0171	0.0200	-14.7	
1,2,4-Trichlorobenzene	Ave	1.393	1.110		0.0159	0.0200	-20.3	
Hexachlorobutadiene	Ave	0.7091	0.4564		0.0129	0.0200	-35.6	
Naphthalene	Ave	3.500	2.902		0.0166	0.0200	-17.1	
1,2,3-Trichlorobenzene	Ave	1.266	0.9651		0.0152	0.0200	-23.8	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: STD8260 240-149656/3 Calibration Date: 10/01/2014 17:34

Instrument ID: A3UX9 Calib Start Date: 08/26/2014 18:31

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/26/2014 21:55

Lab File ID: UX946181.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-Dichloroethane-d4 (Surr)	Ave	0.3790	0.3854		0.0157	0.0154	1.7	20.0
Toluene-d8 (Surr)	Ave	1.736	1.638		0.0145	0.0154	-5.6	
4-Bromofluorobenzene (Surr)	Ave	0.6616	0.5818		0.0136	0.0154	-12.1	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-149656/5

Matrix: Water | Lab File ID: UX946183.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2014 18:18

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.: 149656 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.17	U	1.0	0.17
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
110-75-8	2-Chloroethyl vinyl ether	1.2	U	2.0	1.2
107-02-8	Acrolein	1.4	U	20	1.4
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.24	U	1.0	0.24
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	2.0	0.63
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.33	U	2.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
75-09-2	Methylene Chloride	0.821	J	2.0	0.28
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	0.50	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-149656/5

Matrix: Water Lab File ID: UX946183.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2014 18:18

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.: 149656 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-125
460-00-4	4-Bromofluorobenzene (Surr)	82		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-149656/6

Matrix: Water | Lab File ID: UX946184.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/01/2014 18:41

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.: 149656 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	24.7		1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	17.6		1.0	0.22
79-00-5	1,1,2-Trichloroethane	20.6		1.0	0.17
75-34-3	1,1-Dichloroethane	29.5		1.0	0.26
75-35-4	1,1-Dichloroethene	24.5		1.0	0.45
95-50-1	1,2-Dichlorobenzene	18.9		1.0	0.17
107-06-2	1,2-Dichloroethane	23.2		1.0	0.20
78-87-5	1,2-Dichloropropane	24.1		1.0	0.22
541-73-1	1,3-Dichlorobenzene	18.1		1.0	0.17
106-46-7	1,4-Dichlorobenzene	18.5		1.0	0.16
110-75-8	2-Chloroethyl vinyl ether	27.6		2.0	1.2
107-02-8	Acrolein	72.2		20	1.4
107-13-1	Acrylonitrile	221		20	6.3
71-43-2	Benzene	24.5		1.0	0.24
75-25-2	Bromoform	18.0		1.0	0.56
74-83-9	Bromomethane	26.5		2.0	0.63
56-23-5	Carbon tetrachloride	21.9		1.0	0.17
108-90-7	Chlorobenzene	20.9		1.0	0.19
124-48-1	Chlorodibromomethane	19.8		1.0	0.43
75-00-3	Chloroethane	24.6		2.0	0.33
67-66-3	Chloroform	24.0		1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	23.6		1.0	0.46
75-27-4	Dichlorobromomethane	22.4		1.0	0.15
100-41-4	Ethylbenzene	21.6		1.0	0.23
75-09-2	Methylene Chloride	21.5		2.0	0.28
127-18-4	Tetrachloroethene	20.7		1.0	0.20
108-88-3	Toluene	21.6		1.0	0.22
156-60-5	trans-1,2-Dichloroethene	25.5		0.50	0.26
10061-02-6	trans-1,3-Dichloropropene	21.8		1.0	0.56
79-01-6	Trichloroethene	24.1		1.0	0.15
75-69-4	Trichlorofluoromethane	26.8		2.0	0.49
75-01-4	Vinyl chloride	23.4		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-149656/6

Matrix: Water Lab File ID: UX946184.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/01/2014 18:41

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.: 149656 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-125
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: 190-5340-B-12 MS

Matrix: Water | Lab File ID: UX946205.D

Analysis Method: 624 | Date Collected: 09/23/2014 13:30

Sample wt/vol: 1(mL) | Date Analyzed: 10/02/2014 02:33

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.: 149656 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	106		5.0	1.2
100-41-4	Ethylbenzene	91.6		5.0	1.2
108-88-3	Toluene	93.7		5.0	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		80-125
460-00-4	4-Bromofluorobenzene (Surr)	84		80-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A3UX9 Start Date: 08/26/2014 17:58

Analysis Batch Number: 144562 End Date: 08/26/2014 21:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-144562/1		08/26/2014 17:58	1	BFB2778.D	DB-624 0.18(mm)
STD8260 240-144562/3 IC		08/26/2014 18:31	1	UX945648.D	DB-624 0.18(mm)
STD8260 240-144562/4 IC		08/26/2014 18:54	1	UX945649.D	DB-624 0.18(mm)
STD8260 240-144562/5 ICIS		08/26/2014 19:17	1	UX945650.D	DB-624 0.18(mm)
STD8260 240-144562/6 IC		08/26/2014 19:40	1	UX945651.D	DB-624 0.18(mm)
STD8260 240-144562/33 IC		08/26/2014 21:33	1	UX945656.D	DB-624 0.18(mm)
STD8260 240-144562/34 IC		08/26/2014 21:55	1	UX945657.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A3UX9 Start Date: 10/01/2014 17:08

Analysis Batch Number: 149656 End Date: 10/02/2014 16:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-149656/1		10/01/2014 17:08	1	BFB2806.D	DB-624 0.18(mm)
STD8260 240-149656/3 CCVIS		10/01/2014 17:34	1	UX946181.D	DB-624 0.18(mm)
STDA9 240-149656/4 CCV		10/01/2014 17:57	1	UX946182.D	DB-624 0.18(mm)
MB 240-149656/5		10/01/2014 18:18	1	UX946183.D	DB-624 0.18(mm)
LCS 240-149656/6		10/01/2014 18:41	1	UX946184.D	DB-624 0.18(mm)
ZZZZZ		10/01/2014 19:04	1		DB-624 0.18(mm)
ZZZZZ		10/01/2014 19:26	1		DB-624 0.18(mm)
ZZZZZ		10/01/2014 19:48	1		DB-624 0.18(mm)
ZZZZZ		10/01/2014 20:11	1		DB-624 0.18(mm)
ZZZZZ		10/01/2014 20:34	1		DB-624 0.18(mm)
240-42475-1	DSP-1-092914 GRAB	10/01/2014 21:20	1	UX946191.D	DB-624 0.18(mm)
ZZZZZ		10/01/2014 22:04	1		DB-624 0.18(mm)
ZZZZZ		10/01/2014 22:26	1		DB-624 0.18(mm)
ZZZZZ		10/01/2014 22:48	1		DB-624 0.18(mm)
ZZZZZ		10/01/2014 23:10	1		DB-624 0.18(mm)
ZZZZZ		10/01/2014 23:31	1		DB-624 0.18(mm)
ZZZZZ		10/01/2014 23:54	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 01:02	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 01:24	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 01:47	1		DB-624 0.18(mm)
190-5340-B-12 MS		10/02/2014 02:33	1	UX946205.D	DB-624 0.18(mm)
ZZZZZ		10/02/2014 02:56	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 15:06	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 15:29	4		DB-624 0.18(mm)
ZZZZZ		10/02/2014 16:04	1		DB-624 0.18(mm)

Method 625

Semivolatile Organic Compounds (GC/MS) by Method 625

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

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 #
DSP-1-092914 COMP	240-42475-2	52	57	56	57	70	66
DSP-1-092914 COMP RE	240-42475-2 RE	40	24	59	57	78	50
	MB 240-150089/12-A	81	80	76	68	75	84
	MB 240-150974/9-A	59	37	67	74	73	87
	LCS 240-150089/13-A	76	77	76	70	91	76
	LCS 240-150974/10-A	56	37	72	75	96	63

	QC LIMITS
2FP = 2-Fluorophenol	10-135
PHL = Phenol-d5	10-132
NBZ = Nitrobenzene-d5	44-110
FBP = 2-Fluorobiphenyl (Surr)	38-110
TBP = 2,4,6-Tribromophenol	10-142
TPH = Terphenyl-d14	24-135

Column to be used to flag recovery values

FORM II 625

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 41008011.D

Lab ID: LCS 240-150089/13-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,4-Trichlorobenzene	20.0	13.6	68	44-142	
2,4,6-Trichlorophenol	20.0	15.8	79	37-144	
2,4-Dichlorophenol	20.0	15.5	77	39-135	
2,4-Dimethylphenol	20.0	12.7	64	32-119	
2,4-Dinitrotoluene	20.0	19.0	95	39-139	
2,6-Dinitrotoluene	20.0	17.9	89	50-158	
2-Chloronaphthalene	20.0	14.0	70	60-118	
2-Chlorophenol	20.0	15.7	79	23-134	
2-Nitrophenol	20.0	16.2	81	29-182	
3,3'-Dichlorobenzidine	40.0	32.6	82	0-262	
4,6-Dinitro-2-methylphenol	40.0	40.1 J	100	0-181	
4-Bromophenyl phenyl ether	20.0	16.2	81	53-127	
4-Chlorophenyl phenyl ether	20.0	16.4	82	25-158	
4-Nitrophenol	40.0	38.6 J	96	0-132	
Acenaphthene	20.0	14.8	74	47-145	
Acenaphthylene	20.0	14.0	70	33-145	
Anthracene	20.0	14.9	75	27-133	
Benzidine	40.0	2.4 U	4	10-120	*
Benzo[a]anthracene	20.0	14.5	72	33-143	
Benzo[a]pyrene	20.0	14.8	74	17-163	
Benzo[b]fluoranthene	20.0	14.8	74	24-159	
Benzo[g,h,i]perylene	20.0	15.9	80	0-219	
Benzo[k]fluoranthene	20.0	15.3	77	11-162	
Bis(2-chloroethoxy)methane	20.0	15.4	77	33-184	
Bis(2-chloroethyl)ether	20.0	15.0	75	12-158	
Bis(2-ethylhexyl) phthalate	20.0	17.3	86	8-158	
2,2'-oxybis[1-chloropropane]	20.0	14.7	74	36-166	
Butyl benzyl phthalate	20.0	8.44 J	42	0-152	
Chrysene	20.0	14.6	73	17-168	
Dibenz(a,h)anthracene	20.0	15.8	79	0-227	
Diethyl phthalate	20.0	5.37 J	27	0-114	
Dimethyl phthalate	20.0	1.77 J	9	0-112	
Di-n-butyl phthalate	20.0	10.5	52	1-118	
Di-n-octyl phthalate	20.0	16.6	83	4-146	
Fluoranthene	20.0	15.3	77	26-137	
Fluorene	20.0	16.2	81	59-121	
Hexachlorobenzene	20.0	15.9	79	0-152	
Hexachlorobutadiene	20.0	12.1	61	24-116	
Hexachlorocyclopentadiene	20.0	5.73 J	29	4-120	
Hexachloroethane	20.0	12.1	61	40-113	
Indeno[1,2,3-cd]pyrene	20.0	15.8	79	0-171	
Isophorone	20.0	15.3	76	21-196	

Column to be used to flag recovery and RPD values

FORM III 625

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 41008011.D

Lab ID: LCS 240-150089/13-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	14.0	70	21-133	
Nitrobenzene	20.0	15.5	78	35-180	
N-Nitrosodimethylamine	20.0	15.9	79	10-110	
N-Nitrosodi-n-propylamine	20.0	16.7	84	0-230	
N-Nitrosodiphenylamine	40.0	31.7	79	38-120	
4-Chloro-3-methylphenol	20.0	16.6	83	22-147	
Pentachlorophenol	40.0	25.6	64	14-176	
Phenanthrene	20.0	15.0	75	54-120	
Phenol	20.0	15.7	79	5-112	
Pyrene	20.0	14.4	72	52-115	
1,2-Diphenylhydrazine	20.0	17.1	86	50-150	

Column to be used to flag recovery and RPD values

FORM III 625

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 41012005.D

Lab ID: LCS 240-150974/10-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,4-Trichlorobenzene	20.0	13.5	68	44-142	
2,4,6-Trichlorophenol	20.0	15.8	79	37-144	
2,4-Dichlorophenol	20.0	15.1	76	39-135	
2,4-Dimethylphenol	20.0	14.1	71	32-119	
2,4-Dinitrotoluene	20.0	17.3	87	39-139	
2,6-Dinitrotoluene	20.0	16.7	83	50-158	
2-Chloronaphthalene	20.0	14.1	70	60-118	
2-Chlorophenol	20.0	14.9	75	23-134	
2-Nitrophenol	20.0	16.0	80	29-182	
3,3'-Dichlorobenzidine	40.0	36.5	91	0-262	
4,6-Dinitro-2-methylphenol	40.0	35.2 J	88	0-181	
4-Bromophenyl phenyl ether	20.0	15.5	78	53-127	
4-Chlorophenyl phenyl ether	20.0	15.6	78	25-158	
4-Nitrophenol	40.0	17.4 J	44	0-132	
Acenaphthene	20.0	14.6	73	47-145	
Acenaphthylene	20.0	14.7	74	33-145	
Anthracene	20.0	15.2	76	27-133	
Benzidine	40.0	40.3	101	10-120	
Benzo[a]anthracene	20.0	12.7	64	33-143	
Benzo[a]pyrene	20.0	11.7	59	17-163	
Benzo[b]fluoranthene	20.0	12.3	61	24-159	
Benzo[g,h,i]perylene	20.0	11.4	57	0-219	
Benzo[k]fluoranthene	20.0	11.5	57	11-162	
Bis(2-chloroethoxy)methane	20.0	15.0	75	33-184	
Bis(2-chloroethyl)ether	20.0	14.3	72	12-158	
Bis(2-ethylhexyl) phthalate	20.0	14.2	71	8-158	
2,2'-oxybis[1-chloropropane]	20.0	14.3	71	36-166	
Butyl benzyl phthalate	20.0	13.2	66	0-152	
Chrysene	20.0	13.2	66	17-168	
Dibenz(a,h)anthracene	20.0	11.6	58	0-227	
Diethyl phthalate	20.0	16.1	80	0-114	
Dimethyl phthalate	20.0	15.0	75	0-112	
Di-n-butyl phthalate	20.0	15.4	77	1-118	
Di-n-octyl phthalate	20.0	11.4	57	4-146	
Fluoranthene	20.0	15.0	75	26-137	
Fluorene	20.0	15.6	78	59-121	
Hexachlorobenzene	20.0	15.3	77	0-152	
Hexachlorobutadiene	20.0	13.0	65	24-116	
Hexachlorocyclopentadiene	20.0	9.14 J	46	4-120	
Hexachloroethane	20.0	11.6	58	40-113	
Indeno[1,2,3-cd]pyrene	20.0	11.6	58	0-171	
Isophorone	20.0	14.6	73	21-196	

Column to be used to flag recovery and RPD values

FORM III 625

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 41012005.D

Lab ID: LCS 240-150974/10-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	13.7	69	21-133	
Nitrobenzene	20.0	14.2	71	35-180	
N-Nitrosodimethylamine	20.0	10.6	53	10-110	
N-Nitrosodi-n-propylamine	20.0	14.5	72	0-230	
N-Nitrosodiphenylamine	40.0	31.8	80	38-120	
4-Chloro-3-methylphenol	20.0	15.1	75	22-147	
Pentachlorophenol	40.0	22.0	55	14-176	
Phenanthrene	20.0	15.0	75	54-120	
Phenol	20.0	7.46 J	37	5-112	
Pyrene	20.0	14.6	73	52-115	
1,2-Diphenylhydrazine	20.0	14.6	73	50-150	

Column to be used to flag recovery and RPD values

FORM III 625

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab File ID: 41008010.D Lab Sample ID: MB 240-150089/12-A

Matrix: Water Date Extracted: 10/04/2014 08:09

Instrument ID: A4HP9 Date Analyzed: 10/08/2014 10:37

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-150089/13-A	41008011.D	10/08/2014 11:02
DSP-1-092914 COMP	240-42475-2	41008032.D	10/08/2014 19:43

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab File ID: 41012004.D Lab Sample ID: MB 240-150974/9-A

Matrix: Water Date Extracted: 10/10/2014 07:55

Instrument ID: A4HP9 Date Analyzed: 10/12/2014 11:57

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-150974/10-A	41012005.D	10/12/2014 12:22
DSP-1-092914 COMP RE	240-42475-2 RE	41012030.D	10/12/2014 22:59

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab File ID: 41005001.D DFTPP Injection Date: 10/05/2014

Instrument ID: A4HP9 DFTPP Injection Time: 17:43

Analysis Batch No.: 150155

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	47.7	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	73.3	
70	Less than 2.0% of mass 69	0.3	(0.4)1
127	25.0 - 75.0% of mass 198	56.6	
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	7.2	
275	10.0- 30.0% of mass 198	23.3	
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	68.6	
443	15.0 - 24.0% of mass 442	13.6	(19.8)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
	STD5 240-150155/2	41005002.D	10/05/2014	18:03
	STD4 240-150155/3	41005003.D	10/05/2014	18:28
	STD3 240-150155/4	41005004.D	10/05/2014	18:53
	STD2 240-150155/5	41005005.D	10/05/2014	19:18
	STD1 240-150155/6	41005006.D	10/05/2014	19:42
	STD9 240-150155/7	41005007.D	10/05/2014	20:07
	STD8 240-150155/8	41005008.D	10/05/2014	20:32
	STD7 240-150155/9	41005009.D	10/05/2014	20:56
	STD6 240-150155/10	41005010.D	10/05/2014	21:21
	ICV 240-150155/11	41005011.D	10/05/2014	21:46

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab File ID: 41008001.D DFTPP Injection Date: 10/08/2014

Instrument ID: A4HP9 DFTPP Injection Time: 06:58

Analysis Batch No.: 150544

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	48.2	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	74.6	
70	Less than 2.0% of mass 69	0.4	(0.5)1
127	25.0 - 75.0% of mass 198	55.6	
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	6.7	
275	10.0- 30.0% of mass 198	24.5	
365	Greater than 0.75% of mass 198	3.7	
441	Present, but less than mass 443	12.4	
442	40.0 - 110.0% of mass 198	74.4	
443	15.0 - 24.0% of mass 442	14.1	(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
	CCV 240-150544/2	41008002.D	10/08/2014	07:18
	CCV 240-150544/3	41008003.D	10/08/2014	07:45
	CCV 240-150544/5	41008005.D	10/08/2014	08:34
	MB 240-150089/12-A	41008010.D	10/08/2014	10:37
	LCS 240-150089/13-A	41008011.D	10/08/2014	11:02
DSP-1-092914 COMP	240-42475-2	41008032.D	10/08/2014	19:43

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab File ID: 41012001.D DFTPP Injection Date: 10/12/2014

Instrument ID: A4HP9 DFTPP Injection Time: 09:48

Analysis Batch No.: 151224

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	48.6	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	71.7	
70	Less than 2.0% of mass 69	0.3	(0.4)1
127	25.0 - 75.0% of mass 198	57.2	
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	6.5	
275	10.0- 30.0% of mass 198	23.4	
365	Greater than 0.75% of mass 198	3.4	
441	Present, but less than mass 443	12.4	
442	40.0 - 110.0% of mass 198	76.5	
443	15.0 - 24.0% of mass 442	13.9	(18.2)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 240-151224/2	41012002.D	10/12/2014	10:11
	CCV 240-151224/3	41012003.D	10/12/2014	10:36
	MB 240-150974/9-A	41012004.D	10/12/2014	11:57
	LCS 240-150974/10-A	41012005.D	10/12/2014	12:22
DSP-1-092914 COMP RE	240-42475-2 RE	41012030.D	10/12/2014	22:59

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: STD6 240-150155/10 Date Analyzed: 10/05/2014 21:21

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 41005010.D Heated Purge: (Y/N) N

Calibration ID: 24539

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		131695	6.30	514905	7.41	319349	8.91
UPPER LIMIT		263390	6.80	1029810	7.91	638698	9.41
LOWER LIMIT		65848	5.80	257453	6.91	159675	8.41
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-150155/11		142034	6.30	540207	7.41	329843	8.91
CCV 240-150544/2 CCVIS		97667	6.24	385488	7.36	220176	8.86
CCV 240-151224/2 CCVIS		96191	6.18	374755	7.30	213658	8.79

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 625

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: STD6 240-150155/10 Date Analyzed: 10/05/2014 21:21

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 41005010.D Heated Purge: (Y/N) N

Calibration ID: 24539

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		469445	10.18	607430	12.46	502079	14.21
UPPER LIMIT		938890	10.68	1214860	12.96	1004158	14.71
LOWER LIMIT		234723	9.68	303715	11.96	251040	13.71
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-150155/11		526442	10.18	673669	12.46	559967	14.21
CCV 240-150544/2 CCVIS		330225	10.13	429692	12.40	349706	14.12
CCV 240-151224/2 CCVIS		344895	10.06	418092	12.31	334227	13.97

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 625

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: CCV 240-150544/2 Date Analyzed: 10/08/2014 07:18

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 41008002.D Heated Purge: (Y/N) N

Calibration ID: 24628

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		97667	6.24	385488	7.36	220176	8.86
UPPER LIMIT		195334	6.74	770976	7.86	440352	9.36
LOWER LIMIT		48834	5.74	192744	6.86	110088	8.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-150544/3		106867	6.24	394811	7.36	232698	8.86
CCV 240-150544/5		117971	6.24	460071	7.36	272848	8.86
MB 240-150089/12-A		80785	6.25	301855	7.36	194628	8.86
LCS 240-150089/13-A		73856	6.25	314058	7.36	198283	8.86
240-42475-2	DSP-1-092914 COMP	88441	6.25	346788	7.36	215038	8.86

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 625

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: CCV 240-150544/2 Date Analyzed: 10/08/2014 07:18

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 41008002.D Heated Purge: (Y/N) N

Calibration ID: 24628

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		330225	10.13	429692	12.40	349706	14.12
UPPER LIMIT		660450	10.63	859384	12.90	699412	14.62
LOWER LIMIT		165113	9.63	214846	11.90	174853	13.62
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-150544/3		405165	10.13	473973	12.40	365111	14.11
CCV 240-150544/5		467015	10.12	527252	12.39	435480	14.11
MB 240-150089/12-A		319331	10.13	360348	12.40	305945	14.11
LCS 240-150089/13-A		331972	10.13	413828	12.40	331837	14.11
240-42475-2	DSP-1-092914 COMP	386539	10.13	494688	12.40	448018	14.11

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 625

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: CCV 240-151224/2 Date Analyzed: 10/12/2014 10:11

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 41012002.D Heated Purge: (Y/N) N

Calibration ID: 24628

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		96191	6.18	374755	7.30	213658	8.79
UPPER LIMIT		192382	6.68	749510	7.80	427316	9.29
LOWER LIMIT		48096	5.68	187378	6.80	106829	8.29
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-151224/3		98661	6.17	380197	7.29	220654	8.79
MB 240-150974/9-A		86106	6.18	332208	7.29	195745	8.79
LCS 240-150974/10-A		86016	6.17	337050	7.29	202009	8.79
240-42475-2 RE	DSP-1-092914 COMP RE	99122	6.17	380855	7.29	247439	8.79

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 625

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: CCV 240-151224/2 Date Analyzed: 10/12/2014 10:11

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 41012002.D Heated Purge: (Y/N) N

Calibration ID: 24628

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		344895	10.06	418092	12.31	334227	13.97
UPPER LIMIT		689790	10.56	836184	12.81	668454	14.47
LOWER LIMIT		172448	9.56	209046	11.81	167114	13.47
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-151224/3		396126	10.05	455098	12.31	355058	13.96
MB 240-150974/9-A		327252	10.06	386644	12.31	317432	13.96
LCS 240-150974/10-A		336654	10.05	409689	12.31	326848	13.96
240-42475-2 RE	DSP-1-092914 COMP RE	418221	10.05	510843	12.30	437507	13.96

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 625

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: DSP-1-092914 COMP | Lab Sample ID: 240-42475-2

Matrix: Water | Lab File ID: 41008032.D

Analysis Method: 625 | Date Collected: 09/29/2014 12:00

Extract. Method: 625 | Date Extracted: 10/04/2014 08:09

Sample wt/vol: 1020(mL) | Date Analyzed: 10/08/2014 19:43

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.: 150544 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	0.27	U	9.8	0.27
88-06-2	2,4,6-Trichlorophenol	0.78	U	9.8	0.78
120-83-2	2,4-Dichlorophenol	0.78	U	9.8	0.78
105-67-9	2,4-Dimethylphenol	0.78	U	9.8	0.78
121-14-2	2,4-Dinitrotoluene	0.26	U	9.8	0.26
606-20-2	2,6-Dinitrotoluene	0.78	U	9.8	0.78
91-58-7	2-Chloronaphthalene	0.098	U	9.8	0.098
95-57-8	2-Chlorophenol	0.28	U	9.8	0.28
88-75-5	2-Nitrophenol	0.27	U	9.8	0.27
91-94-1	3,3'-Dichlorobenzidine	0.36	U	9.8	0.36
534-52-1	4,6-Dinitro-2-methylphenol	2.4	U	49	2.4
101-55-3	4-Bromophenyl phenyl ether	0.78	U	9.8	0.78
7005-72-3	4-Chlorophenyl phenyl ether	0.29	U	9.8	0.29
100-02-7	4-Nitrophenol	2.4	U	49	2.4
83-32-9	Acenaphthene	0.098	U	9.8	0.098
208-96-8	Acenaphthylene	0.098	U	9.8	0.098
120-12-7	Anthracene	0.098	U	9.8	0.098
92-87-5	Benzidine	2.4	U *	4.9	2.4
56-55-3	Benzo[a]anthracene	0.098	U	9.8	0.098
50-32-8	Benzo[a]pyrene	0.098	U	9.8	0.098
205-99-2	Benzo[b]fluoranthene	0.098	U	9.8	0.098
191-24-2	Benzo[g,h,i]perylene	0.098	U	9.8	0.098
207-08-9	Benzo[k]fluoranthene	0.098	U	9.8	0.098
111-91-1	Bis(2-chloroethoxy)methane	0.31	U	9.8	0.31
111-44-4	Bis(2-chloroethyl)ether	0.098	U	9.8	0.098
117-81-7	Bis(2-ethylhexyl) phthalate	1.7	U	9.8	1.7
108-60-1	2,2'-oxybis[1-chloropropane]	0.39	U	9.8	0.39
85-68-7	Butyl benzyl phthalate	0.78	U	9.8	0.78
218-01-9	Chrysene	0.098	U	9.8	0.098
53-70-3	Dibenz(a,h)anthracene	0.098	U	9.8	0.098
84-66-2	Diethyl phthalate	0.59	U	9.8	0.59
131-11-3	Dimethyl phthalate	0.28	U	9.8	0.28
84-74-2	Di-n-butyl phthalate	1.7	U	9.8	1.7
117-84-0	Di-n-octyl phthalate	0.78	U	9.8	0.78

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: DSP-1-092914 COMP | Lab Sample ID: 240-42475-2

Matrix: Water | Lab File ID: 41008032.D

Analysis Method: 625 | Date Collected: 09/29/2014 12:00

Extract. Method: 625 | Date Extracted: 10/04/2014 08:09

Sample wt/vol: 1020(mL) | Date Analyzed: 10/08/2014 19:43

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.: 150544 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	0.098	U	9.8	0.098
86-73-7	Fluorene	0.098	U	9.8	0.098
118-74-1	Hexachlorobenzene	0.098	U	9.8	0.098
87-68-3	Hexachlorobutadiene	0.26	U	9.8	0.26
77-47-4	Hexachlorocyclopentadiene	0.24	U	9.8	0.24
67-72-1	Hexachloroethane	0.78	U	9.8	0.78
193-39-5	Indeno[1,2,3-cd]pyrene	0.098	U	9.8	0.098
78-59-1	Isophorone	0.26	U	9.8	0.26
91-20-3	Naphthalene	0.098	U	9.8	0.098
98-95-3	Nitrobenzene	0.039	U	9.8	0.039
62-75-9	N-Nitrosodimethylamine	0.30	U	0.98	0.30
621-64-7	N-Nitrosodi-n-propylamine	0.78	U	9.8	0.78
86-30-6	N-Nitrosodiphenylamine	0.30	U	9.8	0.30
59-50-7	4-Chloro-3-methylphenol	0.78	U	9.8	0.78
87-86-5	Pentachlorophenol	2.4	U	9.8	2.4
85-01-8	Phenanthrene	0.098	U	9.8	0.098
108-95-2	Phenol	0.59	U	9.8	0.59
129-00-0	Pyrene	0.098	U	9.8	0.098
122-66-7	1,2-Diphenylhydrazine	0.28	U	0.98	0.28

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol	52		10-135
118-79-6	2,4,6-Tribromophenol	70		10-142
4165-60-0	Nitrobenzene-d5	56		44-110
4165-62-2	Phenol-d5	57		10-132
1718-51-0	Terphenyl-d14	66		24-135
321-60-8	2-Fluorobiphenyl (Surr)	57		38-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: DSP-1-092914 COMP RE | Lab Sample ID: 240-42475-2 RE

Matrix: Water | Lab File ID: 41012030.D

Analysis Method: 625 | Date Collected: 09/29/2014 12:00

Extract. Method: 625 | Date Extracted: 10/10/2014 07:55

Sample wt/vol: 1020(mL) | Date Analyzed: 10/12/2014 22:59

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.: 151224 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-87-5	*Benzidine*	*2.4*	*U H*	*4.9*	*2.4*

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol	40		10-135
118-79-6	2,4,6-Tribromophenol	78		10-142
4165-60-0	Nitrobenzene-d5	59		44-110
4165-62-2	Phenol-d5	24		10-132
1718-51-0	Terphenyl-d14	50		24-135
321-60-8	2-Fluorobiphenyl (Surr)	57		38-110

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 150155

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2014 18:03 Calibration End Date: 10/05/2014 21:21 Calibration ID: 24539

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-150155/6	41005006.D
Level 2	STD2 240-150155/5	41005005.D
Level 3	STD3 240-150155/4	41005004.D
Level 4	STD4 240-150155/3	41005003.D
Level 5	STD5 240-150155/2	41005002.D
Level 6	STD6 240-150155/10	41005010.D
Level 7	STD7 240-150155/9	41005009.D
Level 8	STD8 240-150155/8	41005008.D
Level 9	STD9 240-150155/7	41005007.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	0.9409	1.1067 0.8856	0.9974 0.8259	1.0608 0.8229	0.9560	Ave		0.9495				11.0		35.0			
N-Nitrosodimethylamine	1.5256	1.3197 1.5594	1.3020 1.4113	1.4077 1.3171	1.3268	Ave		1.3962				7.1		35.0			
Pyridine	2.5223	2.3204 2.6201	2.3395 2.3849	2.5756 2.2849	2.4233	Ave		2.4339				5.1		35.0			
Phenol	2.6206	2.6204 2.6147	2.5609 2.4073	2.9774 2.5417	2.5892	Ave		2.6165				6.2		35.0			
Aniline	3.1999	3.0927 3.3165	3.0586 3.0509	3.6094 3.1148	3.1463	Ave		3.1986				5.8		35.0			
Bis(2-chloroethyl)ether	2.1525	2.0386 2.1646	2.1766 2.0390	2.5311 2.0691	2.1464	Ave		2.1647				7.3		35.0			
2-Chlorophenol	1.4890	1.4067 1.5226	1.4249 1.4388	1.6248 1.4268	1.4469	Ave		1.4725				4.9		35.0			
n-Decane	2.0225	2.2358 2.0556	2.0480 1.8982	2.3025 1.9175	2.0534	Ave		2.0667				6.8		35.0			
1,3-Dichlorobenzene	1.6052	1.6820 1.6306	1.6030 1.5263	1.6914 1.5465	1.5957	Ave		1.6101				3.6		35.0			
1,4-Dichlorobenzene	1.6702	1.6274 1.6960	1.6602 1.5610	1.7664 1.5499	1.6861	Ave		1.6521				4.3		35.0			
Benzyl alcohol	1.2422	1.2012 1.3069	1.2369 1.1829	1.2033 1.2055	1.2973	Ave		1.2345				3.7		35.0			
1,2-Dichlorobenzene	1.5630	1.6637 1.6145	1.6290 1.4663	1.6466 1.4846	1.5726	Ave		1.5800				4.6		35.0			
2-Methylphenol	1.7714	1.8869 1.8431	1.7122 1.6674	1.8322 1.6694	1.8451	Ave		1.7785				4.8		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 150155

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2014 18:03 Calibration End Date: 10/05/2014 21:21 Calibration ID: 24539

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								
2,2'-oxybis[1-chloropropane]	2.1664	2.3334 2.2329	2.2665 2.0158	2.2785 2.0082	2.2739	Ave		2.1969				5.6		35.0			
3 & 4 Methylphenol	1.8618	1.8144 1.9427	1.8276 1.7555	1.9875 1.7539	1.9559	Ave		1.8624				4.9		35.0			
N-Nitrosodi-n-propylamine	1.8829	1.7308 1.9868	1.8810 1.7801	1.9330 1.7854	1.9965	Ave		1.8721				5.3		35.0			
Acetophenone	2.8953	2.7534 2.9685	2.9733 2.7150	3.1159 2.7031	3.0478	Ave		2.8965				5.4		35.0			
Hexachloroethane	0.7947	0.8341 0.8258	0.8114 0.7362	0.8522 0.7374	0.8053	Ave		0.7996				5.3		35.0			
Nitrobenzene	0.7539	0.6991 0.7964	0.7506 0.7321	0.7174 0.6864	0.7363	Ave		0.7340				4.7		35.0			
Isophorone	1.2355	1.2413 1.2413	1.2567 1.1980	1.2747 1.1920	1.2311	Ave		1.2338				2.2		35.0			
2-Nitrophenol	0.1824	0.1600 0.1845	0.1551 0.1803	0.1794 0.1764	0.1903	Ave		0.1761				6.9		35.0			
2,4-Dimethylphenol	0.5190	0.5276 0.5160	0.5198 0.5165	0.5480 0.4926	0.5266	Ave		0.5208				3.0		35.0			
Benzoic acid	0.2355	+++++ 0.2555	0.1461 0.2474	0.2028 0.2435	0.2210	Ave		0.2217				17.0		35.0			
Bis(2-chloroethoxy)methane	0.6416	0.6421 0.6545	0.6524 0.6044	0.6550 0.5932	0.6369	Ave		0.6350				3.7		35.0			
2,4-Dichlorophenol	0.3093	0.2902 0.3247	0.3357 0.2885	0.3079 0.2843	0.3070	Ave		0.3060				5.9		35.0			
1,2,4-Trichlorobenzene	0.3318	0.3402 0.3480	0.3489 0.3143	0.3366 0.3083	0.3452	Ave		0.3342				4.6		35.0			
Naphthalene	1.2489 1.0969	1.0999 1.1549	1.1411 1.0410	1.1236 1.0457	1.0918	Ave		1.1160				5.6		35.0			
4-Chloroaniline	0.4761	0.4219 0.5031	0.4548 0.4454	0.4494 0.4516	0.4629	Ave		0.4582				5.2		35.0			
Hexachlorobutadiene	0.2224	0.2321 0.2261	0.2296 0.2128	0.2113 0.2020	0.2167	Ave		0.2191				4.7		35.0			
4-Chloro-3-methylphenol	0.4799	0.4329 0.4993	0.4524 0.4556	0.4693 0.4259	0.4555	Ave		0.4588				5.2		35.0			
2-Methylnaphthalene	0.7872 0.6937	0.7088 0.7044	0.6847 0.6474	0.6779 0.6242	0.6575	Ave		0.6873				6.8		35.0			
Hexachlorocyclopentadiene	0.3425	0.3272 0.3630	0.3201 0.3379	0.3690 0.3471	0.3751	Ave		0.3477				5.7		35.0			
1,2,4,5-Tetrachlorobenzene	0.5581	0.6197 0.5713	0.5707 0.5390	0.5604 0.5219	0.5784	Ave		0.5649				5.1		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 150155

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2014 18:03 Calibration End Date: 10/05/2014 21:21 Calibration ID: 24539

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								
2,4,6-Trichlorophenol	0.3801	0.3361 0.3836	0.3673 0.3623	0.3679 0.3522	0.3912	Ave		0.3676				4.8		35.0			
2,4,5-Trichlorophenol	0.4028	0.3803 0.4072	0.3967 0.3807	0.4024 0.3666	0.4088	Ave		0.3932				3.9		35.0			
1,1'-Biphenyl	1.5624 1.3891	1.5183 1.4092	1.4627 1.3425	1.4098 1.3190	1.4012	Ave		1.4238				5.5		35.0			
2-Chloronaphthalene	1.3822 1.1317	1.1686 1.1688	1.2290 1.1033	1.1591 1.0754	1.1622	Ave		1.1756				7.6		35.0			
2-Nitroaniline	0.6348	0.4620 0.6432	0.5785 0.5915	0.5709 0.5761	0.6172	Ave		0.5843				9.7		35.0			
Dimethyl phthalate	1.2805	1.3098 1.2519	1.3090 1.1612	1.3276 1.1550	1.3362	Ave		1.2664				5.7		35.0			
2,6-Dinitrotoluene	0.2954	0.2468 0.2919	0.2689 0.2780	0.3028 0.2651	0.3013	Ave		0.2813				7.1		35.0			
Acenaphthylene	1.9322 1.7625	1.8546 1.8179	1.7758 1.7156	1.7889 1.7051	1.7785	Ave		1.7923				3.9		35.0			
3-Nitroaniline	0.3001	0.2446 0.3090	0.3090 0.3044	0.2940 0.3001	0.3030	Ave		0.2955				7.2		35.0			
2,4-Dinitrophenol	0.1206	+++++ 0.1392	0.0492 0.1352	0.0892 0.1450	0.1176	Ave		0.1137				30.0		35.0			
Acenaphthene	1.3123 1.1242	1.2750 1.1547	1.2017 1.1168	1.1500 1.0849	1.1364	Ave		1.1729				6.5		35.0			
4-Nitrophenol	0.3098	0.2255 0.3060	0.2328 0.2927	0.2744 0.2836	0.2968	Ave		0.2777				12.0		35.0			
2,4-Dinitrotoluene	0.3699	0.2859 0.3933	0.3099 0.3821	0.3474 0.3645	0.3729	Ave		0.3533				11.0		35.0			
Dibenzofuran	+++++ 1.5655	1.7255 1.6270	1.6466 1.5461	1.6119 1.5156	1.6303	Ave		1.6086				4.1		35.0			
Diethyl phthalate	1.2045	1.3561 1.2472	1.3186 1.2163	1.3408 1.2016	1.2800	Ave		1.2706				4.9		35.0			
4-Chlorophenyl phenyl ether	0.6155	0.6581 0.6104	0.6448 0.5794	0.5995 0.5468	0.6053	Ave		0.6075				5.8		35.0			
4-Nitroaniline	0.3118	0.2369 0.3127	0.2537 0.3069	0.2775 0.2961	0.3077	Ave		0.2879				10.0		35.0			
Fluorene	1.3530 1.2378	1.4168 1.2313	1.2977 1.1717	1.3104 1.1287	1.3051	Ave		1.2725				7.0		35.0			
4,6-Dinitro-2-methylphenol	0.1197	+++++ 0.1294	0.0657 0.1259	0.0849 0.1201	0.1064	Ave		0.1074				22.0		35.0			
N-Nitrosodiphenylamine	0.5507	0.5551 0.5654	0.5461 0.5601	0.5304 0.5322	0.5720	Ave		0.5515				2.7		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 150155

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2014 18:03 Calibration End Date: 10/05/2014 21:21 Calibration ID: 24539

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-Diphenylhydrazine	1.7263	1.4579 1.6273	1.5066 1.5445	1.5068 1.3748	1.6720	Ave		1.5528				7.5		35.0			
Azobenzene	1.7287	1.4648 1.6283	1.5112 1.5445	1.4994 1.3745	1.6713	Ave		1.5528				7.5		35.0			
4-Bromophenyl phenyl ether	0.2200	0.2498 0.2069	0.2379 0.2080	0.2166 0.1945	0.2258	Ave		0.2199				8.1		35.0			
Hexachlorobenzene	0.2390 0.2146	0.2204 0.2125	0.2191 0.2057	0.2034 0.1890	0.2178	Ave		0.2135				6.4		35.0			
n-Octadecane	0.5954	0.6212 0.5354	0.6065 0.5393	0.5930 0.4546	0.6251	Ave		0.5713				10.0		35.0			
Pentachlorophenol	0.1685	0.1197 0.1764	0.1316 0.1759	0.1454 0.1650	0.1501	Ave		0.1541				14.0		35.0			
Phenanthrene	1.2825 1.1442	1.2289 1.1715	1.1887 1.1122	1.1617 1.0902	1.1060	Ave		1.1651				5.3		35.0			
Anthracene	1.2149 1.1964	1.1771 1.2131	1.1784 1.1822	1.1754 1.1521	1.1682	Ave		1.1842				1.7		35.0			
Carbazole	1.0079	1.0343 0.9793	0.9657 0.9742	1.0054 0.9568	0.9462	Ave		0.9837				3.0		35.0			
Di-n-butyl phthalate	1.4007	1.1382 1.4237	1.1749 1.3927	1.2743 1.3500	1.3886	Ave		1.3179				8.3		35.0			
Fluoranthene	1.3172 1.3132	1.2361 1.3283	1.2580 1.3116	1.2592 1.2007	1.3396	Ave		1.2849				3.7		35.0			
Benzidine	0.2468	+++++ 0.2976	+++++ 0.4034	+++++ 0.4095	0.1403	Ave		0.2995				38.0	*	35.0			
Pyrene	1.3568 1.1063	1.0785 1.1228	1.0628 1.0315	1.1300 1.0316	1.1481	Ave		1.1187				8.8		35.0			
Butyl benzyl phthalate	0.5343	0.4492 0.5386	0.5194 0.5045	0.5312 0.5025	0.5635	Ave		0.5179				6.6		35.0			
Bis(2-ethylhexyl) phthalate	0.7324	0.5913 0.7354	0.6531 0.6983	0.7174 0.6908	0.7282	Ave		0.6934				7.1		35.0			
3,3'-Dichlorobenzidine	0.3387	0.2740 0.3601	0.2785 0.3594	0.2108 0.3787	0.3216	Ave		0.3152				18.0		35.0			
Benzo[a]anthracene	1.3920 1.1607	1.0891 1.1825	1.1332 1.1042	1.1468 1.1137	1.1222	Ave		1.1605				7.9		35.0			
Chrysene	1.2938 1.1233	1.1300 1.1429	1.1179 1.0703	1.1051 1.0773	1.0771	Ave		1.1264				6.0		35.0			
Di-n-octyl phthalate	1.5132	1.0775 1.5363	1.3046 1.5220	1.4015 1.4457	1.4731	Ave		1.4092				11.0		35.0			
Benzo[b]fluoranthene	1.3422 1.2377	1.2610 1.2313	1.2398 1.2238	1.2408 1.1541	1.1816	Ave		1.2347				4.2		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 150155

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2014 18:03 Calibration End Date: 10/05/2014 21:21 Calibration ID: 24539

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								
Benzo[k]fluoranthene	1.3727 1.3927	1.2490 1.3804	1.3402 1.3126	1.2774 1.2061	1.2976	Ave		1.3143				4.8		35.0			
Benzo[a]pyrene	1.2135 1.1972	1.1005 1.2348	1.2077 1.1764	1.1324 1.1210	1.1544	Ave		1.1709				4.0		35.0			
Indeno[1,2,3-cd]pyrene	1.1417 1.1805	1.1420 1.2535	1.2250 1.2168	1.1953 1.1397	1.1473	Ave		1.1824				3.6		35.0			
Dibenz(a,h)anthracene	0.9440 0.9818	0.9207 1.0380	0.9694 1.0038	0.9365 0.9460	0.9477	Ave		0.9653				3.8		35.0			
Benzo[g,h,i]perylene	0.9974 0.9914	0.9647 1.0468	1.0436 0.9876	1.0024 0.9357	0.9514	Ave		0.9912				3.8		35.0			
2-Fluorophenol	 1.5361	1.5154 1.6756	1.4767 1.6617	1.8050 1.5849	1.7566	Ave		1.6265				7.2		35.0			
Phenol-d5	 2.3318	2.3878 2.3374	2.3990 2.3603	2.7426 2.4678	2.3010	Ave		2.4160				5.9		35.0			
Nitrobenzene-d5	0.7709 0.7270	0.6640 0.7725	0.6900 0.7765	0.6942 0.7261	0.7082	Ave		0.7255				5.6		35.0			
2-Fluorobiphenyl (Surr)	1.5491 1.2051	1.2749 1.2300	1.2883 1.2842	1.2586 1.2537	1.2193	Ave		1.2848				8.0		35.0			
2,4,6-Tribromophenol	 0.1391	0.1188 0.1459	0.1259 0.1604	0.1378 0.1581	0.1494	Ave		0.1419				10.0		35.0			
Terphenyl-d14	0.7910 0.7639	0.7281 0.7712	0.7952 0.5541	0.7528 +++++	0.7854	Ave		0.7427				11.0		35.0			

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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 150155

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2014 18:03 Calibration End Date: 10/05/2014 21:21 Calibration ID: 24539

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-150155/6	41005006.D
Level 2	STD2 240-150155/5	41005005.D
Level 3	STD3 240-150155/4	41005004.D
Level 4	STD4 240-150155/3	41005003.D
Level 5	STD5 240-150155/2	41005002.D
Level 6	STD6 240-150155/10	41005010.D
Level 7	STD7 240-150155/9	41005009.D
Level 8	STD8 240-150155/8	41005008.D
Level 9	STD9 240-150155/7	41005007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCB	Ave	309788	16040 448841	28743 522765	55078 698669	127233	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodimethylamine	DCB	Ave	502281	19127 790349	37520 893310	73094 1118280	176576	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pyridine	DCB	Ave	830445	33630 1327975	67416 1509601	133733 1940022	322504	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Phenol	DCB	Ave	862812	37979 1325235	73798 1523782	154595 2158028	344578	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Aniline	DCB	Ave	1053522	44824 1680903	88139 1931157	187414 2644625	418712	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-chloroethyl)ether	DCB	Ave	708685	29547 1097082	62722 1290669	131421 1756791	285646	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chlorophenol	DCB	Ave	490232	20388 771694	41060 910740	84364 1211402	192558	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
n-Decane	DCB	Ave	665881	32404 1041859	59017 1201553	119556 1628056	273265	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dichlorobenzene	DCB	Ave	528489	24378 826467	46195 966105	87824 1313066	212365	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,4-Dichlorobenzene	DCB	Ave	549908	23587 859604	47841 988058	91717 1315936	224384	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzyl alcohol	DCB	Ave	408976	17409 662366	35644 748783	62478 1023514	172643	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2-Dichlorobenzene	DCB	Ave	514603	24113 818288	46942 928167	85496 1260472	209288	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylphenol	DCB	Ave	583219	27348 934124	49340 1055429	95135 1417396	245547	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,2'-oxybis[1-chloropropane]	DCB	Ave	713257	33819 1131703	65314 1275930	118307 1705116	302616	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 150155

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2014 18:03 Calibration End Date: 10/05/2014 21:21 Calibration ID: 24539

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
3 & 4 Methylphenol	DCB	Ave	612965	26297 984639	52667 1111176	103198 1489186	260290	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodi-n-propylamine	DCB	Ave	619913	25085 1006984	54205 1126780	100370 1515885	265697	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acetophenone	DCB	Ave	953241	39907 1504517	85683 1718521	161789 2295081	405608	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachloroethane	DCB	Ave	261634	12089 418556	23383 465970	44249 626070	107175	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene	NPT	Ave	970504	39256 1542798	83067 1744963	155903 2307753	397372	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Isophorone	NPT	Ave	1590423	69703 2404829	139086 2855551	277031 4007463	664409	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitrophenol	NPT	Ave	234857	8983 357386	17167 429770	38990 593224	102686	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dimethylphenol	NPT	Ave	668090	29628 999716	57533 1231130	119098 1656257	284233	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzoic acid	NPT	Ave	606427	+++++ 989943	32344 1179573	88148 1637082	238572	20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	825869	36054 1267865	72204 1440712	142344 1994283	343719	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dichlorophenol	NPT	Ave	398097	16298 629020	37152 687717	66923 955884	165704	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4-Trichlorobenzene	NPT	Ave	427154	19102 674230	38612 749110	73155 1036689	186289	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Naphthalene	NPT	Ave	14470 1411964	61759 2237428	126291 2481275	244197 3515716	589229	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloroaniline	NPT	Ave	612855	23692 974600	50339 1061638	97678 1518405	249803	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobutadiene	NPT	Ave	286320	13032 438098	25406 507170	45926 679032	116949	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloro-3-methylphenol	NPT	Ave	617787	24307 967255	50063 1085846	101991 1431789	245813	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylnaphthalene	NPT	Ave	9121 893027	39799 1364602	75781 1543085	147317 2098768	354853	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorocyclopentadiene	ANT	Ave	273425	10374 438554	20222 485087	47822 706584	115883	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	445548	19645 690242	36060 773739	72616 1062390	178711	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Trichlorophenol	ANT	Ave	303466	10656 463499	23208 520157	47680 716887	120851	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,5-Trichlorophenol	ANT	Ave	321608	12057 491973	25065 546497	52151 746143	126316	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 150155

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2014 18:03 Calibration End Date: 10/05/2014 21:21 Calibration ID: 24539

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,1'-Biphenyl	ANT	Ave	10420 1109052	48134 1702605	92417 1927306	182695 2684746	432904	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chloronaphthalene	ANT	Ave	9218 903557	37049 1412124	77648 1583847	150197 2188993	359071	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitroaniline	ANT	Ave	 506778	14647 777055	36550 849103	73978 1172547	190702	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dimethyl phthalate	ANT	Ave	 1022280	41524 1512533	82708 1666972	172033 2350894	412832	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dinitrotoluene	ANT	Ave	 235827	7823 352725	16991 399055	39242 539600	93097	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthylene	ANT	Ave	12886 1407116	58795 2196368	112199 2462970	231815 3470687	549491	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3-Nitroaniline	ANT	Ave	 239623	7756 373384	19525 436998	38102 610818	93612	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dinitrophenol	ANT	Ave	 192520	+++++ 336308	6220 388282	23120 590449	72657	 20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
Acenaphthene	ANT	Ave	8752 897504	40421 1395080	75926 1603247	149020 2208263	351114	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitrophenol	ANT	Ave	 494696	14300 739515	29421 840274	71117 1154544	183413	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
2,4-Dinitrotoluene	ANT	Ave	 295327	9065 475235	19580 548498	45022 741991	115209	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenzofuran	ANT	Ave	+++++ 1249882	54702 1965705	104035 2219638	208885 3084904	503679	+++++ 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Diethyl phthalate	ANT	Ave	 961628	42991 1506829	83315 1746182	173753 2445781	395474	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chlorophenyl phenyl ether	ANT	Ave	 491389	20865 737460	40743 831805	77681 1113067	187018	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitroaniline	ANT	Ave	 248952	7511 377761	16028 440520	35961 602642	95075	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluorene	ANT	Ave	9023 988225	44917 1487613	81991 1682039	169807 2297505	403232	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4,6-Dinitro-2-methylphenol	PHN	Ave	 280965	+++++ 464227	14001 534268	36372 763913	102205	 20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
N-Nitrosodiphenylamine	PHN	Ave	 1292553	60727 2028110	116348 2377523	227335 3385370	549571	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
1,2-Diphenylhydrazine	PHN	Ave	 2025985	79742 2918717	160491 3278136	322897 4372757	803188	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Azobenzene	PHN	Ave	 2028814	80117 2920524	160980 3278136	321317 4371627	802841	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Bromophenyl phenyl ether	PHN	Ave	 258155	13664 371181	25340 441467	46417 618727	108467	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 150155

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2014 18:03 Calibration End Date: 10/05/2014 21:21 Calibration ID: 24539

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Hexachlorobenzene	PHN	Ave	2721 251901	12054 381215	23338 436601	43599 601261	104650	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
n-Octadecane	PHN	Ave	 698761	33977 960275	64608 1144623	127086 1445790	300275	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pentachlorophenol	PHN	Ave	 395484	13089 632972	28046 746905	62308 1049802	144185	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Phenanthrene	PHN	Ave	14600 1342891	67217 2101313	126623 2360707	248960 3467353	531294	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Anthracene	PHN	Ave	13830 1404127	64385 2175808	125527 2509162	251883 3664449	561192	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Carbazole	PHN	Ave	 1182841	56570 1756428	102871 2067752	215447 3043053	454551	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-butyl phthalate	PHN	Ave	 1643852	62254 2553675	125156 2956086	273083 4293784	667041	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluoranthene	PHN	Ave	14995 1541224	67610 2382520	134006 2783903	269851 3818951	643542	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzidine	CRY	Ave	 749491	+++++ 1366472	+++++ 2290569	+++++ 3259488	161970	 20.0	+++++ 30.0	+++++ 40.0	+++++ 50.0	10.0
Pyrene	CRY	Ave	18138 1679960	72571 2577334	134558 2928128	289146 4106226	662604	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Butyl benzyl phthalate	CRY	Ave	 811352	30225 1236298	65763 1432114	135934 2000256	325210	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	 1112202	39787 1688212	82687 1982392	183579 2749784	420254	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3,3'-Dichlorobenzidine	CRY	Ave	 1028605	36866 1653350	70514 2040326	107869 3014755	371241	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Benzo[a]anthracene	CRY	Ave	18609 1762635	73280 2714386	143477 3134490	293445 4432704	647653	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Chrysene	CRY	Ave	17297 1705843	76032 2623571	141535 3038281	282781 4288014	621629	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-octyl phthalate	PRY	Ave	 1899411	58838 2970467	134177 3449567	304392 4857078	753565	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[b]fluoranthene	PRY	Ave	15260 1553528	68857 2380834	127515 2773687	269488 3877536	604454	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[k]fluoranthene	PRY	Ave	15606 1748123	68202 2669139	137835 2974987	277436 4052125	663823	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[a]pyrene	PRY	Ave	13796 1502693	60095 2387495	124210 2666120	245939 3766248	590544	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	12980 1481769	62359 2423638	125990 2757861	259602 3829194	586929	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenz(a,h)anthracene	PRY	Ave	10732 1232386	50275 2007046	99707 2274926	203385 3178269	484819	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 150155

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/05/2014 18:03 Calibration End Date: 10/05/2014 21:21 Calibration ID: 24539

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Benzo[g,h,i]perylene	PRY	Ave	11339 1244413	52678 2023984	107329 2238367	217717 3143767	486697	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorophenol	DCB	Ave	 505741	21963 849253	42555 1051844	93723 1345627	233777	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Phenol-d5	DCB	Ave	 767712	34608 1184657	69133 1494053	142404 2095288	306224	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene-d5	NPT	Ave	8932 935836	37282 1496484	76366 1850774	150864 2441101	382228	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorobiphenyl (Surr)	ANT	Ave	10331 962084	40419 1486074	81395 1843551	163098 2551843	376725	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Tribromophenol	ANT	Ave	 111053	3766 176239	7957 230225	17851 321860	46148	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Terphenyl-d14	CRY	Ave	10574 1160069	48990 1770324	100675 1572880	192630 +++++	453254	0.100 10.0	0.500 15.0	1.00 20.0	2.00 +++++	5.00

Curve Type Legend:

Ave = Average ISTD

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID (1): CCV 240-150544/2 CCVIS Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 10/08/2014 07:18

ANALYTE	RT	RESOLUTION (%)
N-Nitrosodimethylamine	3.37	100.0
2-Fluorophenol	5.01	100.0
Phenol-d5	5.87	100.0
Phenol	5.89	100.0
Bis(2-chloroethyl)ether	5.99	100.0
2-Chlorophenol	6.06	100.0
2,2'-oxybis[1-chloropropane]	6.47	100.0
N-Nitrosodi-n-propylamine	6.58	100.0
Hexachloroethane	6.70	100.0
Nitrobenzene-d5	6.73	100.0
Nitrobenzene	6.74	100.0
Isophorone	6.94	100.0
2-Nitrophenol	7.02	100.0
2,4-Dimethylphenol	7.02	100.0
Bis(2-chloroethoxy)methane	7.11	100.0
2,4-Dichlorophenol	7.22	100.0
1,2,4-Trichlorobenzene	7.30	100.0
Naphthalene	7.38	100.0
Hexachlorobutadiene	7.47	100.0
4-Chloro-3-methylphenol	7.79	100.0
Hexachlorocyclopentadiene	8.09	100.0
2,4,6-Trichlorophenol	8.19	100.0
2-Fluorobiphenyl (Surr)	8.26	100.0
2-Chloronaphthalene	8.38	100.0
Dimethyl phthalate	8.59	100.0
2,6-Dinitrotoluene	8.64	100.0
Acenaphthylene	8.74	100.0
Acenaphthene	8.89	100.0
4-Nitrophenol	8.90	100.0
2,4-Dinitrotoluene	8.99	100.0
Diethyl phthalate	9.17	100.0
4-Chlorophenyl phenyl ether	9.30	100.0
Fluorene	9.33	100.0
4,6-Dinitro-2-methylphenol	9.34	100.0
N-Nitrosodiphenylamine	9.40	100.0
1,2-Diphenylhydrazine	9.44	100.0
2,4,6-Tribromophenol	9.53	100.0
4-Bromophenyl phenyl ether	9.72	100.0
Hexachlorobenzene	9.79	100.0
Pentachlorophenol	9.95	100.0
Phenanthrene	10.15	100.0
Anthracene	10.19	100.0
Di-n-butyl phthalate	10.55	100.0
Fluoranthene	11.16	100.0
Benzidine	11.25	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID (1): CCV 240-150544/2 CCVIS Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 10/08/2014 07:18

ANALYTE	RT	RESOLUTION (%)
Pyrene	11.37	100.0
Terphenyl-d14	11.45	100.0
Butyl benzyl phthalate	11.83	100.0
Bis(2-ethylhexyl) phthalate	12.30	100.0
3,3'-Dichlorobenzidine	12.33	100.0
Benzo[a]anthracene	12.39	100.0
Chrysene	12.42	100.0
Di-n-octyl phthalate	12.95	100.0
Benzo[b]fluoranthene	13.58	32.20
Benzo[k]fluoranthene	13.61	100.0
Benzo[a]pyrene	14.04	100.0
Indeno[1,2,3-cd]pyrene	15.99	100.0
Dibenz(a,h)anthracene	16.01	100.0
Benzo[g,h,i]perylene	16.57	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID (1): CCV 240-151224/2 CCVIS Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 10/12/2014 10:11

ANALYTE	RT	RESOLUTION (%)
N-Nitrosodimethylamine	3.17	100.0
2-Fluorophenol	4.93	100.0
Phenol-d5	5.82	100.0
Phenol	5.83	100.0
Bis(2-chloroethyl)ether	5.92	100.0
2-Chlorophenol	5.99	100.0
2,2'-oxybis[1-chloropropane]	6.40	100.0
N-Nitrosodi-n-propylamine	6.51	100.0
Hexachloroethane	6.63	100.0
Nitrobenzene-d5	6.66	100.0
Nitrobenzene	6.68	100.0
Isophorone	6.88	100.0
2-Nitrophenol	6.95	100.0
2,4-Dimethylphenol	6.96	100.0
Bis(2-chloroethoxy)methane	7.05	100.0
2,4-Dichlorophenol	7.16	100.0
1,2,4-Trichlorobenzene	7.24	100.0
Naphthalene	7.31	100.0
Hexachlorobutadiene	7.40	100.0
4-Chloro-3-methylphenol	7.73	100.0
Hexachlorocyclopentadiene	8.03	100.0
2,4,6-Trichlorophenol	8.13	100.0
2-Fluorobiphenyl (Surr)	8.20	100.0
2-Chloronaphthalene	8.32	100.0
Dimethyl phthalate	8.52	100.0
2,6-Dinitrotoluene	8.58	100.0
Acenaphthylene	8.68	100.0
Acenaphthene	8.82	100.0
4-Nitrophenol	8.85	100.0
2,4-Dinitrotoluene	8.93	100.0
Diethyl phthalate	9.11	100.0
4-Chlorophenyl phenyl ether	9.23	100.0
Fluorene	9.26	100.0
4,6-Dinitro-2-methylphenol	9.27	100.0
N-Nitrosodiphenylamine	9.33	100.0
1,2-Diphenylhydrazine	9.37	100.0
2,4,6-Tribromophenol	9.46	100.0
4-Bromophenyl phenyl ether	9.65	100.0
Hexachlorobenzene	9.72	100.0
Pentachlorophenol	9.88	100.0
Phenanthrene	10.08	100.0
Anthracene	10.12	100.0
Di-n-butyl phthalate	10.48	100.0
Fluoranthene	11.09	100.0
Benzidine	11.17	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID (1): CCV 240-151224/2 CCVIS Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 10/12/2014 10:11

ANALYTE	RT	RESOLUTION (%)
Pyrene	11.29	100.0
Terphenyl-d14	11.38	100.0
Butyl benzyl phthalate	11.76	100.0
Bis(2-ethylhexyl) phthalate	12.22	100.0
3,3'-Dichlorobenzidine	12.25	100.0
Benzo[a]anthracene	12.30	100.0
Chrysene	12.34	100.0
Di-n-octyl phthalate	12.84	100.0
Benzo[b]fluoranthene	13.45	32.90
Benzo[k]fluoranthene	13.48	100.0
Benzo[a]pyrene	13.89	100.0
Indeno[1,2,3-cd]pyrene	15.77	100.0
Dibenz(a,h)anthracene	15.78	100.0
Benzo[g,h,i]perylene	16.33	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: ICV 240-150155/11 Calibration Date: 10/05/2014 21:46

Instrument ID: A4HP9 Calib Start Date: 10/05/2014 18:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 10/05/2014 21:21

Lab File ID: 41005011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.9495	0.8724		9.19	10.0	-8.1	20.0
N-Nitrosodimethylamine	Ave	1.396	1.303		9.33	10.0	-6.7	20.0
Pyridine	Ave	2.434	2.400		9.86	10.0	-1.4	20.0
Phenol	Ave	2.617	2.488		9.51	10.0	-4.9	20.0
Aniline	Ave	3.199	3.141		9.82	10.0	-1.8	20.0
Bis(2-chloroethyl)ether	Ave	2.165	2.056		9.50	10.0	-5.0	20.0
2-Chlorophenol	Ave	1.473	1.430		9.71	10.0	-2.9	20.0
n-Decane	Ave	2.067	1.956		9.47	10.0	-5.3	20.0
1,3-Dichlorobenzene	Ave	1.610	1.511		9.38	10.0	-6.2	20.0
1,4-Dichlorobenzene	Ave	1.652	1.581		9.57	10.0	-4.3	20.0
Benzyl alcohol	Ave	1.235	1.206		9.77	10.0	-2.3	20.0
1,2-Dichlorobenzene	Ave	1.580	1.478		9.35	10.0	-6.5	20.0
2-Methylphenol	Ave	1.778	1.765		9.92	10.0	-0.8	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.197	2.020		9.19	10.0	-8.1	20.0
3 & 4 Methylphenol	Ave	1.862	1.814		9.74	10.0	-2.6	20.0
N-Nitrosodi-n-propylamine	Ave	1.872	1.867		9.97	10.0	-0.3	20.0
Acetophenone	Ave	2.897	2.801		9.67	10.0	-3.3	20.0
Hexachloroethane	Ave	0.7996	0.7654		9.57	10.0	-4.3	20.0
Nitrobenzene	Ave	0.7340	0.7564		10.3	10.0	3.0	20.0
Isophorone	Ave	1.234	1.207		9.79	10.0	-2.1	20.0
2,4-Dimethylphenol	Ave	0.5208	0.5183		9.95	10.0	-0.5	20.0
2-Nitrophenol	Ave	0.1761	0.1745		9.91	10.0	-0.9	20.0
Benzoic acid	Ave	0.2217	0.2563		23.1	20.0	15.6	20.0
Bis(2-chloroethoxy)methane	Ave	0.6350	0.6309		9.93	10.0	-0.7	20.0
2,4-Dichlorophenol	Ave	0.3060	0.2853		9.32	10.0	-6.8	20.0
1,2,4-Trichlorobenzene	Ave	0.3342	0.3136		9.38	10.0	-6.2	20.0
Naphthalene	Ave	1.116	1.038		9.30	10.0	-7.0	20.0
4-Chloroaniline	Ave	0.4582	0.4388		9.58	10.0	-4.2	20.0
Hexachlorobutadiene	Ave	0.2191	0.2076		9.48	10.0	-5.2	20.0
4-Chloro-3-methylphenol	Ave	0.4588	0.4610		10.0	10.0	0.5	20.0
2-Methylnaphthalene	Ave	0.6873	0.6284		9.14	10.0	-8.6	20.0
Hexachlorocyclopentadiene	Ave	0.3477	0.3222		9.27	10.0	-7.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5649	0.5491		9.72	10.0	-2.8	20.0
2,4,6-Trichlorophenol	Ave	0.3676	0.3514		9.56	10.0	-4.4	20.0
2,4,5-Trichlorophenol	Ave	0.3932	0.3559		9.05	10.0	-9.5	20.0
1,1'-Biphenyl	Ave	1.424	1.269		8.91	10.0	-10.9	20.0
2-Chloronaphthalene	Ave	1.176	1.037		8.82	10.0	-11.8	20.0
2-Nitroaniline	Ave	0.5843	0.5780		9.89	10.0	-1.1	20.0
Dimethyl phthalate	Ave	1.266	1.205		9.51	10.0	-4.9	20.0
2,6-Dinitrotoluene	Ave	0.2813	0.2782		9.89	10.0	-1.1	20.0
Acenaphthylene	Ave	1.792	1.658		9.25	10.0	-7.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: ICV 240-150155/11 Calibration Date: 10/05/2014 21:46

Instrument ID: A4HP9 Calib Start Date: 10/05/2014 18:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 10/05/2014 21:21

Lab File ID: 41005011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Ave	0.2955	0.2861		9.68	10.0	-3.2	20.0
2,4-Dinitrophenol	Ave	0.1137	0.1101		19.4	20.0	-3.1	20.0
Acenaphthene	Ave	1.173	1.112		9.48	10.0	-5.2	20.0
4-Nitrophenol	Ave	0.2777	0.2903		20.9	20.0	4.5	20.0
2,4-Dinitrotoluene	Ave	0.3533	0.3737		10.6	10.0	5.8	20.0
Dibenzofuran	Ave	1.609	1.531		9.52	10.0	-4.8	20.0
Diethyl phthalate	Ave	1.271	1.180		9.29	10.0	-7.1	20.0
4-Chlorophenyl phenyl ether	Ave	0.6075	0.6054		9.96	10.0	-0.3	20.0
4-Nitroaniline	Ave	0.2879	0.3024		10.5	10.0	5.0	20.0
Fluorene	Ave	1.272	1.261		9.91	10.0	-0.9	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1074	0.1079		20.1	20.0	0.4	20.0
N-Nitrosodiphenylamine	Ave	0.5515	0.5206		18.9	20.0	-5.6	20.0
1,2-Diphenylhydrazine	Ave	1.553	1.580		10.2	10.0	1.7	20.0
4-Bromophenyl phenyl ether	Ave	0.2199	0.2016		9.17	10.0	-8.3	20.0
Hexachlorobenzene	Ave	0.2135	0.2008		9.41	10.0	-5.9	20.0
n-Octadecane	Ave	0.5713	0.5502		9.63	10.0	-3.7	20.0
Pentachlorophenol	Ave	0.1541	0.1541		20.0	20.0	-0.0	20.0
Phenanthrene	Ave	1.165	1.055		9.06	10.0	-9.4	20.0
Anthracene	Ave	1.184	1.122		9.48	10.0	-5.2	20.0
Carbazole	Ave	0.9837	0.9274		9.43	10.0	-5.7	20.0
Di-n-butyl phthalate	Ave	1.318	1.337		10.1	10.0	1.4	20.0
Fluoranthene	Ave	1.285	1.211		9.42	10.0	-5.8	20.0
Benzidine	Ave	0.2995	0.3326		22.2	20.0	11.0	20.0
Pyrene	Ave	1.119	0.9809		8.77	10.0	-12.3	20.0
Butyl benzyl phthalate	Ave	0.5179	0.4914		9.49	10.0	-5.1	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6934	0.6611		9.53	10.0	-4.7	20.0
3,3'-Dichlorobenzidine	Ave	0.3152	0.3282		20.8	20.0	4.1	20.0
Benzo[a]anthracene	Ave	1.160	1.094		9.43	10.0	-5.7	20.0
Chrysene	Ave	1.126	1.066		9.46	10.0	-5.4	20.0
Di-n-octyl phthalate	Ave	1.409	1.420		10.1	10.0	0.8	20.0
Benzo[b]fluoranthene	Ave	1.235	1.126		9.12	10.0	-8.8	20.0
Benzo[k]fluoranthene	Ave	1.314	1.260		9.59	10.0	-4.1	20.0
Benzo[a]pyrene	Ave	1.171	1.099		9.38	10.0	-6.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.182	1.079		9.13	10.0	-8.7	20.0
Dibenz(a,h)anthracene	Ave	0.9653	0.9416		9.75	10.0	-2.5	20.0
Benzo[g,h,i]perylene	Ave	0.9912	0.9270		9.35	10.0	-6.5	20.0
2-Fluorophenol	Ave	1.627	1.700		10.5	10.0	4.5	20.0
Phenol-d5	Ave	2.416	2.474		10.2	10.0	2.4	20.0
Nitrobenzene-d5	Ave	0.7255	0.7999		11.0	10.0	10.3	20.0
2-Fluorobiphenyl (Surr)	Ave	1.285	1.250		9.73	10.0	-2.7	20.0
2,4,6-Tribromophenol	Ave	0.1419	0.1575		11.1	10.0	11.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: ICV 240-150155/11 Calibration Date: 10/05/2014 21:46

Instrument ID: A4HP9 Calib Start Date: 10/05/2014 18:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 10/05/2014 21:21

Lab File ID: 41005011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Terphenyl-d14	Ave	0.7427	0.5809		7.82	10.0	-21.8*	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150544/2 Calibration Date: 10/08/2014 07:18

Instrument ID: A4HP9 Calib Start Date: 10/05/2014 18:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 10/05/2014 21:21

Lab File ID: 41008002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.9495	0.9882		10.4	10.0	4.1	20.0
N-Nitrosodimethylamine	Ave	1.396	1.580		11.3	10.0	13.2	20.0
Pyridine	Ave	2.434	2.638		10.8	10.0	8.4	20.0
Phenol	Ave	2.617	2.789		10.7	10.0	6.6	20.0
Aniline	Ave	3.199	3.372		10.5	10.0	5.4	20.0
Bis(2-chloroethyl)ether	Ave	2.165	2.322		10.7	10.0	7.3	20.0
2-Chlorophenol	Ave	1.473	1.542		10.5	10.0	4.7	20.0
n-Decane	Ave	2.067	2.144		10.4	10.0	3.7	20.0
1,3-Dichlorobenzene	Ave	1.610	1.646		10.2	10.0	2.2	20.0
1,4-Dichlorobenzene	Ave	1.652	1.703		10.3	10.0	3.1	20.0
Benzyl alcohol	Ave	1.235	1.294		10.5	10.0	4.8	20.0
1,2-Dichlorobenzene	Ave	1.580	1.606		10.2	10.0	1.6	20.0
2-Methylphenol	Ave	1.778	1.885		10.6	10.0	6.0	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.197	2.350		10.7	10.0	7.0	20.0
3 & 4 Methylphenol	Ave	1.862	1.987		10.7	10.0	6.7	20.0
N-Nitrosodi-n-propylamine	Ave	1.872	2.001		10.7	10.0	6.9	20.0
Acetophenone	Ave	2.897	3.101		10.7	10.0	7.0	20.0
Hexachloroethane	Ave	0.7996	0.8578		10.7	10.0	7.3	20.0
Nitrobenzene	Ave	0.7340	0.8016		10.9	10.0	9.2	20.0
Isophorone	Ave	1.234	1.320		10.7	10.0	7.0	20.0
2-Nitrophenol	Ave	0.1761	0.1969		11.2	10.0	11.9	20.0
2,4-Dimethylphenol	Ave	0.5208	0.5612		10.8	10.0	7.8	20.0
Benzoic acid	Ave	0.2217	0.2426		21.9	20.0	9.4	20.0
Bis(2-chloroethoxy)methane	Ave	0.6350	0.6771		10.7	10.0	6.6	20.0
2,4-Dichlorophenol	Ave	0.3060	0.3129		10.2	10.0	2.3	20.0
1,2,4-Trichlorobenzene	Ave	0.3342	0.3389		10.1	10.0	1.4	20.0
Naphthalene	Ave	1.116	1.097		9.83	10.0	-1.7	20.0
4-Chloroaniline	Ave	0.4582	0.4540		9.91	10.0	-0.9	20.0
Hexachlorobutadiene	Ave	0.2191	0.2227		10.2	10.0	1.6	20.0
4-Chloro-3-methylphenol	Ave	0.4588	0.4772		10.4	10.0	4.0	20.0
2-Methylnaphthalene	Ave	0.6873	0.6529		9.50	10.0	-5.0	20.0
Hexachlorocyclopentadiene	Ave	0.3477	0.3974		11.4	10.0	14.3	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5649	0.5847		10.4	10.0	3.5	20.0
2,4,6-Trichlorophenol	Ave	0.3676	0.3778		10.3	10.0	2.8	20.0
2,4,5-Trichlorophenol	Ave	0.3932	0.4041		10.3	10.0	2.8	20.0
1,1'-Biphenyl	Ave	1.424	1.443		10.1	10.0	1.3	20.0
2-Chloronaphthalene	Ave	1.176	1.156		9.84	10.0	-1.6	20.0
2-Nitroaniline	Ave	0.5843	0.6889		11.8	10.0	17.9	20.0
Dimethyl phthalate	Ave	1.266	1.315		10.4	10.0	3.8	20.0
2,6-Dinitrotoluene	Ave	0.2813	0.3088		11.0	10.0	9.8	20.0
Acenaphthylene	Ave	1.792	1.766		9.85	10.0	-1.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150544/2 Calibration Date: 10/08/2014 07:18

Instrument ID: A4HP9 Calib Start Date: 10/05/2014 18:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 10/05/2014 21:21

Lab File ID: 41008002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Ave	0.2955	0.3115		10.5	10.0	5.4	20.0
2,4-Dinitrophenol	Ave	0.1137	0.1823		32.1	20.0	60.3*	20.0
Acenaphthene	Ave	1.173	1.155		9.84	10.0	-1.6	20.0
4-Nitrophenol	Ave	0.2777	0.3357		24.2	20.0	20.9*	20.0
2,4-Dinitrotoluene	Ave	0.3533	0.4107		11.6	10.0	16.3	20.0
Dibenzofuran	Ave	1.609	1.623		10.1	10.0	0.9	20.0
Diethyl phthalate	Ave	1.271	1.211		9.53	10.0	-4.7	20.0
4-Chlorophenyl phenyl ether	Ave	0.6075	0.6137		10.1	10.0	1.0	20.0
4-Nitroaniline	Ave	0.2879	0.3103		10.8	10.0	7.8	20.0
Fluorene	Ave	1.272	1.255		9.86	10.0	-1.4	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1074	0.1622		30.2	20.0	51.0*	20.0
N-Nitrosodiphenylamine	Ave	0.5515	0.5664		20.5	20.0	2.7	20.0
1,2-Diphenylhydrazine	Ave	1.553	1.761		11.3	10.0	13.4	20.0
4-Bromophenyl phenyl ether	Ave	0.2199	0.2334		10.6	10.0	6.1	20.0
Hexachlorobenzene	Ave	0.2135	0.2295		10.7	10.0	7.5	20.0
n-Octadecane	Ave	0.5713	0.6569		11.5	10.0	15.0	20.0
Pentachlorophenol	Ave	0.1541	0.1602		20.8	20.0	4.0	20.0
Phenanthrene	Ave	1.165	1.170		10.0	10.0	0.4	20.0
Anthracene	Ave	1.184	1.223		10.3	10.0	3.3	20.0
Carbazole	Ave	0.9837	1.004		10.2	10.0	2.1	20.0
Di-n-butyl phthalate	Ave	1.318	1.476		11.2	10.0	12.0	20.0
Fluoranthene	Ave	1.285	1.351		10.5	10.0	5.2	20.0
Benzidine	Ave	0.2995	0.2934		19.6	20.0	-2.1	20.0
Pyrene	Ave	1.119	1.074		9.60	10.0	-4.0	20.0
Butyl benzyl phthalate	Ave	0.5179	0.5384		10.4	10.0	4.0	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6934	0.7363		10.6	10.0	6.2	20.0
3,3'-Dichlorobenzidine	Ave	0.3152	0.3238		20.5	20.0	2.7	20.0
Benzo[a]anthracene	Ave	1.160	1.150		9.91	10.0	-0.9	20.0
Chrysene	Ave	1.126	1.134		10.1	10.0	0.7	20.0
Di-n-octyl phthalate	Ave	1.409	1.528		10.8	10.0	8.4	20.0
Benzo[b]fluoranthene	Ave	1.235	1.116		9.03	10.0	-9.7	20.0
Benzo[k]fluoranthene	Ave	1.314	1.316		10.0	10.0	0.1	20.0
Benzo[a]pyrene	Ave	1.171	1.172		10.0	10.0	0.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.182	1.226		10.4	10.0	3.7	20.0
Dibenz(a,h)anthracene	Ave	0.9653	1.000		10.4	10.0	3.6	20.0
Benzo[g,h,i]perylene	Ave	0.9912	1.028		10.4	10.0	3.7	20.0
2-Fluorophenol	Ave	1.627	1.726		10.6	10.0	6.1	20.0
Phenol-d5	Ave	2.416	2.448		10.1	10.0	1.3	20.0
Nitrobenzene-d5	Ave	0.7255	0.7645		10.5	10.0	5.4	20.0
2-Fluorobiphenyl (Surr)	Ave	1.285	1.215		9.45	10.0	-5.5	20.0
2,4,6-Tribromophenol	Ave	0.1419	0.1461		10.3	10.0	3.0	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150544/2 Calibration Date: 10/08/2014 07:18

Instrument ID: A4HP9 Calib Start Date: 10/05/2014 18:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 10/05/2014 21:21

Lab File ID: 41008002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Terphenyl-d14	Ave	0.7427	0.7393		9.95	10.0	-0.5	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-151224/2 Calibration Date: 10/12/2014 10:11

Instrument ID: A4HP9 Calib Start Date: 10/05/2014 18:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 10/05/2014 21:21

Lab File ID: 41012002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.9495	1.023		10.8	10.0	7.8	20.0
N-Nitrosodimethylamine	Ave	1.396	1.592		11.4	10.0	14.0	20.0
Pyridine	Ave	2.434	2.584		10.6	10.0	6.2	20.0
Phenol	Ave	2.617	2.761		10.6	10.0	5.5	20.0
Aniline	Ave	3.199	3.329		10.4	10.0	4.1	20.0
Bis(2-chloroethyl)ether	Ave	2.165	2.224		10.3	10.0	2.8	20.0
2-Chlorophenol	Ave	1.473	1.508		10.2	10.0	2.4	20.0
n-Decane	Ave	2.067	2.137		10.3	10.0	3.4	20.0
1,3-Dichlorobenzene	Ave	1.610	1.615		10.0	10.0	0.3	20.0
1,4-Dichlorobenzene	Ave	1.652	1.689		10.2	10.0	2.2	20.0
Benzyl alcohol	Ave	1.235	1.285		10.4	10.0	4.1	20.0
1,2-Dichlorobenzene	Ave	1.580	1.547		9.79	10.0	-2.1	20.0
2-Methylphenol	Ave	1.778	1.788		10.1	10.0	0.5	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.197	2.234		10.2	10.0	1.7	20.0
3 & 4 Methylphenol	Ave	1.862	1.912		10.3	10.0	2.7	20.0
N-Nitrosodi-n-propylamine	Ave	1.872	1.923		10.3	10.0	2.7	20.0
Acetophenone	Ave	2.897	2.968		10.2	10.0	2.5	20.0
Hexachloroethane	Ave	0.7996	0.8427		10.5	10.0	5.4	20.0
Nitrobenzene	Ave	0.7340	0.7780		10.6	10.0	6.0	20.0
Isophorone	Ave	1.234	1.309		10.6	10.0	6.1	20.0
2-Nitrophenol	Ave	0.1761	0.1963		11.2	10.0	11.5	20.0
2,4-Dimethylphenol	Ave	0.5208	0.5506		10.6	10.0	5.7	20.0
Benzoic acid	Ave	0.2217	0.2235		20.2	20.0	0.8	20.0
Bis(2-chloroethoxy)methane	Ave	0.6350	0.6649		10.5	10.0	4.7	20.0
2,4-Dichlorophenol	Ave	0.3060	0.3167		10.3	10.0	3.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3342	0.3408		10.2	10.0	2.0	20.0
Naphthalene	Ave	1.116	1.116		10.0	10.0	0.0	20.0
4-Chloroaniline	Ave	0.4582	0.4860		10.6	10.0	6.1	20.0
Hexachlorobutadiene	Ave	0.2191	0.2297		10.5	10.0	4.8	20.0
4-Chloro-3-methylphenol	Ave	0.4588	0.4812		10.5	10.0	4.9	20.0
2-Methylnaphthalene	Ave	0.6873	0.6636		9.65	10.0	-3.5	20.0
Hexachlorocyclopentadiene	Ave	0.3477	0.3943		11.3	10.0	13.4	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5649	0.5732		10.1	10.0	1.5	20.0
2,4,6-Trichlorophenol	Ave	0.3676	0.4015		10.9	10.0	9.2	20.0
2,4,5-Trichlorophenol	Ave	0.3932	0.4201		10.7	10.0	6.8	20.0
1,1'-Biphenyl	Ave	1.424	1.471		10.3	10.0	3.3	20.0
2-Chloronaphthalene	Ave	1.176	1.220		10.4	10.0	3.8	20.0
2-Nitroaniline	Ave	0.5843	0.7078		12.1	10.0	21.2*	20.0
Dimethyl phthalate	Ave	1.266	1.374		10.8	10.0	8.5	20.0
2,6-Dinitrotoluene	Ave	0.2813	0.3269		11.6	10.0	16.2	20.0
Acenaphthylene	Ave	1.792	1.835		10.2	10.0	2.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-151224/2 Calibration Date: 10/12/2014 10:11

Instrument ID: A4HP9 Calib Start Date: 10/05/2014 18:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 10/05/2014 21:21

Lab File ID: 41012002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Ave	0.2955	0.3434		11.6	10.0	16.2	20.0
2,4-Dinitrophenol	Ave	0.1137	0.1614		28.4	20.0	42.0*	20.0
Acenaphthene	Ave	1.173	1.189		10.1	10.0	1.4	20.0
4-Nitrophenol	Ave	0.2777	0.3434		24.7	20.0	23.6*	20.0
2,4-Dinitrotoluene	Ave	0.3533	0.4233		12.0	10.0	19.8	20.0
Dibenzofuran	Ave	1.609	1.688		10.5	10.0	4.9	20.0
Diethyl phthalate	Ave	1.271	1.346		10.6	10.0	5.9	20.0
4-Chlorophenyl phenyl ether	Ave	0.6075	0.6433		10.6	10.0	5.9	20.0
4-Nitroaniline	Ave	0.2879	0.3661		12.7	10.0	27.2*	20.0
Fluorene	Ave	1.272	1.350		10.6	10.0	6.1	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1074	0.1543		28.7	20.0	43.7*	20.0
N-Nitrosodiphenylamine	Ave	0.5515	0.5819		21.1	20.0	5.5	20.0
1,2-Diphenylhydrazine	Ave	1.553	1.713		11.0	10.0	10.3	20.0
4-Bromophenyl phenyl ether	Ave	0.2199	0.2309		10.5	10.0	5.0	20.0
Hexachlorobenzene	Ave	0.2135	0.2220		10.4	10.0	4.0	20.0
n-Octadecane	Ave	0.5713	0.6622		11.6	10.0	15.9	20.0
Pentachlorophenol	Ave	0.1541	0.1386		18.0	20.0	-10.0	20.0
Phenanthrene	Ave	1.165	1.170		10.0	10.0	0.4	20.0
Anthracene	Ave	1.184	1.203		10.2	10.0	1.6	20.0
Carbazole	Ave	0.9837	1.020		10.4	10.0	3.7	20.0
Di-n-butyl phthalate	Ave	1.318	1.440		10.9	10.0	9.2	20.0
Fluoranthene	Ave	1.285	1.309		10.2	10.0	1.8	20.0
Benzidine	Ave	0.2995	0.3199		21.4	20.0	6.8	20.0
Pyrene	Ave	1.119	1.119		10.0	10.0	0.0	20.0
Butyl benzyl phthalate	Ave	0.5179	0.5401		10.4	10.0	4.3	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6934	0.7519		10.8	10.0	8.4	20.0
3,3'-Dichlorobenzidine	Ave	0.3152	0.3488		22.1	20.0	10.7	20.0
Benzo[a]anthracene	Ave	1.160	1.165		10.0	10.0	0.4	20.0
Chrysene	Ave	1.126	1.142		10.1	10.0	1.4	20.0
Di-n-octyl phthalate	Ave	1.409	1.655		11.7	10.0	17.5	20.0
Benzo[b]fluoranthene	Ave	1.235	1.312		10.6	10.0	6.3	20.0
Benzo[k]fluoranthene	Ave	1.314	1.329		10.1	10.0	1.1	20.0
Benzo[a]pyrene	Ave	1.171	1.223		10.4	10.0	4.5	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.182	1.281		10.8	10.0	8.3	20.0
Dibenz(a,h)anthracene	Ave	0.9653	1.054		10.9	10.0	9.2	20.0
Benzo[g,h,i]perylene	Ave	0.9912	1.068		10.8	10.0	7.8	20.0
2-Fluorophenol	Ave	1.627	1.708		10.5	10.0	5.0	20.0
Phenol-d5	Ave	2.416	2.478		10.3	10.0	2.6	20.0
Nitrobenzene-d5	Ave	0.7255	0.7307		10.1	10.0	0.7	20.0
2-Fluorobiphenyl (Surr)	Ave	1.285	1.246		9.70	10.0	-3.0	20.0
2,4,6-Tribromophenol	Ave	0.1419	0.1595		11.2	10.0	12.4	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-151224/2 Calibration Date: 10/12/2014 10:11

Instrument ID: A4HP9 Calib Start Date: 10/05/2014 18:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 10/05/2014 21:21

Lab File ID: 41012002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Terphenyl-d14	Ave	0.7427	0.7559		10.2	10.0	1.8	20.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-150089/12-A

Matrix: Water | Lab File ID: 41008010.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 10/04/2014 08:09

Sample wt/vol: 1000(mL) | Date Analyzed: 10/08/2014 10:37

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.: 150544 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	0.28	U	10	0.28
88-06-2	2,4,6-Trichlorophenol	0.80	U	10	0.80
120-83-2	2,4-Dichlorophenol	0.80	U	10	0.80
105-67-9	2,4-Dimethylphenol	0.80	U	10	0.80
121-14-2	2,4-Dinitrotoluene	0.27	U	10	0.27
606-20-2	2,6-Dinitrotoluene	0.80	U	10	0.80
91-58-7	2-Chloronaphthalene	0.10	U	10	0.10
95-57-8	2-Chlorophenol	0.29	U	10	0.29
88-75-5	2-Nitrophenol	0.28	U	10	0.28
91-94-1	3,3'-Dichlorobenzidine	0.37	U	10	0.37
534-52-1	4,6-Dinitro-2-methylphenol	2.4	U	50	2.4
101-55-3	4-Bromophenyl phenyl ether	0.80	U	10	0.80
7005-72-3	4-Chlorophenyl phenyl ether	0.30	U	10	0.30
100-02-7	4-Nitrophenol	2.4	U	50	2.4
83-32-9	Acenaphthene	0.10	U	10	0.10
208-96-8	Acenaphthylene	0.10	U	10	0.10
120-12-7	Anthracene	0.10	U	10	0.10
92-87-5	Benzidine	2.4	U	5.0	2.4
56-55-3	Benzo[a]anthracene	0.10	U	10	0.10
50-32-8	Benzo[a]pyrene	0.10	U	10	0.10
205-99-2	Benzo[b]fluoranthene	0.10	U	10	0.10
191-24-2	Benzo[g,h,i]perylene	0.10	U	10	0.10
207-08-9	Benzo[k]fluoranthene	0.10	U	10	0.10
111-91-1	Bis(2-chloroethoxy)methane	0.32	U	10	0.32
111-44-4	Bis(2-chloroethyl)ether	0.10	U	10	0.10
117-81-7	Bis(2-ethylhexyl) phthalate	1.7	U	10	1.7
108-60-1	2,2'-oxybis[1-chloropropane]	0.40	U	10	0.40
85-68-7	Butyl benzyl phthalate	0.80	U	10	0.80
218-01-9	Chrysene	0.10	U	10	0.10
53-70-3	Dibenz(a,h)anthracene	0.10	U	10	0.10
84-66-2	Diethyl phthalate	0.60	U	10	0.60
131-11-3	Dimethyl phthalate	0.29	U	10	0.29
84-74-2	Di-n-butyl phthalate	1.7	U	10	1.7
117-84-0	Di-n-octyl phthalate	0.80	U	10	0.80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-150089/12-A

Matrix: Water | Lab File ID: 41008010.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 10/04/2014 08:09

Sample wt/vol: 1000(mL) | Date Analyzed: 10/08/2014 10:37

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.: 150544 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	0.10	U	10	0.10
86-73-7	Fluorene	0.10	U	10	0.10
118-74-1	Hexachlorobenzene	0.10	U	10	0.10
87-68-3	Hexachlorobutadiene	0.27	U	10	0.27
77-47-4	Hexachlorocyclopentadiene	0.24	U	10	0.24
67-72-1	Hexachloroethane	0.80	U	10	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	0.10	U	10	0.10
78-59-1	Isophorone	0.27	U	10	0.27
91-20-3	Naphthalene	0.10	U	10	0.10
98-95-3	Nitrobenzene	0.040	U	10	0.040
62-75-9	N-Nitrosodimethylamine	0.31	U	1.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	0.80	U	10	0.80
86-30-6	N-Nitrosodiphenylamine	0.31	U	10	0.31
59-50-7	4-Chloro-3-methylphenol	0.80	U	10	0.80
87-86-5	Pentachlorophenol	2.4	U	10	2.4
85-01-8	Phenanthrene	0.10	U	10	0.10
108-95-2	Phenol	0.60	U	10	0.60
129-00-0	Pyrene	0.10	U	10	0.10
122-66-7	1,2-Diphenylhydrazine	0.29	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol	81		10-135
118-79-6	2,4,6-Tribromophenol	75		10-142
4165-60-0	Nitrobenzene-d5	76		44-110
4165-62-2	Phenol-d5	80		10-132
1718-51-0	Terphenyl-d14	84		24-135
321-60-8	2-Fluorobiphenyl (Surr)	68		38-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-150974/9-A

Matrix: Water | Lab File ID: 41012004.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 10/10/2014 07:55

Sample wt/vol: 1000(mL) | Date Analyzed: 10/12/2014 11:57

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.: 151224 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	0.28	U	10	0.28
88-06-2	2,4,6-Trichlorophenol	0.80	U	10	0.80
120-83-2	2,4-Dichlorophenol	0.80	U	10	0.80
105-67-9	2,4-Dimethylphenol	0.80	U	10	0.80
121-14-2	2,4-Dinitrotoluene	0.27	U	10	0.27
606-20-2	2,6-Dinitrotoluene	0.80	U	10	0.80
91-58-7	2-Chloronaphthalene	0.10	U	10	0.10
95-57-8	2-Chlorophenol	0.29	U	10	0.29
88-75-5	2-Nitrophenol	0.28	U	10	0.28
91-94-1	3,3'-Dichlorobenzidine	0.37	U	10	0.37
534-52-1	4,6-Dinitro-2-methylphenol	2.4	U	50	2.4
101-55-3	4-Bromophenyl phenyl ether	0.80	U	10	0.80
7005-72-3	4-Chlorophenyl phenyl ether	0.30	U	10	0.30
100-02-7	4-Nitrophenol	2.4	U	50	2.4
83-32-9	Acenaphthene	0.10	U	10	0.10
208-96-8	Acenaphthylene	0.10	U	10	0.10
120-12-7	Anthracene	0.10	U	10	0.10
92-87-5	Benzidine	2.4	U	5.0	2.4
56-55-3	Benzo[a]anthracene	0.10	U	10	0.10
50-32-8	Benzo[a]pyrene	0.10	U	10	0.10
205-99-2	Benzo[b]fluoranthene	0.10	U	10	0.10
191-24-2	Benzo[g,h,i]perylene	0.10	U	10	0.10
207-08-9	Benzo[k]fluoranthene	0.10	U	10	0.10
111-91-1	Bis(2-chloroethoxy)methane	0.32	U	10	0.32
111-44-4	Bis(2-chloroethyl)ether	0.10	U	10	0.10
117-81-7	Bis(2-ethylhexyl) phthalate	2.83	J	10	1.7
108-60-1	2,2'-oxybis[1-chloropropane]	0.40	U	10	0.40
85-68-7	Butyl benzyl phthalate	0.80	U	10	0.80
218-01-9	Chrysene	0.10	U	10	0.10
53-70-3	Dibenz(a,h)anthracene	0.10	U	10	0.10
84-66-2	Diethyl phthalate	0.60	U	10	0.60
131-11-3	Dimethyl phthalate	0.29	U	10	0.29
84-74-2	Di-n-butyl phthalate	1.7	U	10	1.7
117-84-0	Di-n-octyl phthalate	0.80	U	10	0.80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-150974/9-A

Matrix: Water | Lab File ID: 41012004.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 10/10/2014 07:55

Sample wt/vol: 1000(mL) | Date Analyzed: 10/12/2014 11:57

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.: 151224 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	0.10	U	10	0.10
86-73-7	Fluorene	0.10	U	10	0.10
118-74-1	Hexachlorobenzene	0.10	U	10	0.10
87-68-3	Hexachlorobutadiene	0.27	U	10	0.27
77-47-4	Hexachlorocyclopentadiene	0.24	U	10	0.24
67-72-1	Hexachloroethane	0.80	U	10	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	0.10	U	10	0.10
78-59-1	Isophorone	0.27	U	10	0.27
91-20-3	Naphthalene	0.10	U	10	0.10
98-95-3	Nitrobenzene	0.040	U	10	0.040
62-75-9	N-Nitrosodimethylamine	0.31	U	1.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	0.80	U	10	0.80
86-30-6	N-Nitrosodiphenylamine	0.31	U	10	0.31
59-50-7	4-Chloro-3-methylphenol	0.80	U	10	0.80
87-86-5	Pentachlorophenol	2.4	U	10	2.4
85-01-8	Phenanthrene	0.10	U	10	0.10
108-95-2	Phenol	0.60	U	10	0.60
129-00-0	Pyrene	0.10	U	10	0.10
122-66-7	1,2-Diphenylhydrazine	0.29	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol	59		10-135
118-79-6	2,4,6-Tribromophenol	73		10-142
4165-60-0	Nitrobenzene-d5	67		44-110
4165-62-2	Phenol-d5	37		10-132
1718-51-0	Terphenyl-d14	87		24-135
321-60-8	2-Fluorobiphenyl (Surr)	74		38-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-150089/13-A

Matrix: Water | Lab File ID: 41008011.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 10/04/2014 08:09

Sample wt/vol: 1000(mL) | Date Analyzed: 10/08/2014 11:02

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.: 150544 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	13.6		10	0.28
88-06-2	2,4,6-Trichlorophenol	15.8		10	0.80
120-83-2	2,4-Dichlorophenol	15.5		10	0.80
105-67-9	2,4-Dimethylphenol	12.7		10	0.80
121-14-2	2,4-Dinitrotoluene	19.0		10	0.27
606-20-2	2,6-Dinitrotoluene	17.9		10	0.80
91-58-7	2-Chloronaphthalene	14.0		10	0.10
95-57-8	2-Chlorophenol	15.7		10	0.29
88-75-5	2-Nitrophenol	16.2		10	0.28
91-94-1	3,3'-Dichlorobenzidine	32.6		10	0.37
534-52-1	4,6-Dinitro-2-methylphenol	40.1	J	50	2.4
101-55-3	4-Bromophenyl phenyl ether	16.2		10	0.80
7005-72-3	4-Chlorophenyl phenyl ether	16.4		10	0.30
100-02-7	4-Nitrophenol	38.6	J	50	2.4
83-32-9	Acenaphthene	14.8		10	0.10
208-96-8	Acenaphthylene	14.0		10	0.10
120-12-7	Anthracene	14.9		10	0.10
92-87-5	Benzidine	2.4	U	5.0	2.4
56-55-3	Benzo[a]anthracene	14.5		10	0.10
50-32-8	Benzo[a]pyrene	14.8		10	0.10
205-99-2	Benzo[b]fluoranthene	14.8		10	0.10
191-24-2	Benzo[g,h,i]perylene	15.9		10	0.10
207-08-9	Benzo[k]fluoranthene	15.3		10	0.10
111-91-1	Bis(2-chloroethoxy)methane	15.4		10	0.32
111-44-4	Bis(2-chloroethyl)ether	15.0		10	0.10
117-81-7	Bis(2-ethylhexyl) phthalate	17.3		10	1.7
108-60-1	2,2'-oxybis[1-chloropropane]	14.7		10	0.40
85-68-7	Butyl benzyl phthalate	8.44	J	10	0.80
218-01-9	Chrysene	14.6		10	0.10
53-70-3	Dibenz(a,h)anthracene	15.8		10	0.10
84-66-2	Diethyl phthalate	5.37	J	10	0.60
131-11-3	Dimethyl phthalate	1.77	J	10	0.29
84-74-2	Di-n-butyl phthalate	10.5		10	1.7
117-84-0	Di-n-octyl phthalate	16.6		10	0.80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-150089/13-A

Matrix: Water | Lab File ID: 41008011.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 10/04/2014 08:09

Sample wt/vol: 1000(mL) | Date Analyzed: 10/08/2014 11:02

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.: 150544 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	15.3		10	0.10
86-73-7	Fluorene	16.2		10	0.10
118-74-1	Hexachlorobenzene	15.9		10	0.10
87-68-3	Hexachlorobutadiene	12.1		10	0.27
77-47-4	Hexachlorocyclopentadiene	5.73	J	10	0.24
67-72-1	Hexachloroethane	12.1		10	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	15.8		10	0.10
78-59-1	Isophorone	15.3		10	0.27
91-20-3	Naphthalene	14.0		10	0.10
98-95-3	Nitrobenzene	15.5		10	0.040
62-75-9	N-Nitrosodimethylamine	15.9		1.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	16.7		10	0.80
86-30-6	N-Nitrosodiphenylamine	31.7		10	0.31
59-50-7	4-Chloro-3-methylphenol	16.6		10	0.80
87-86-5	Pentachlorophenol	25.6		10	2.4
85-01-8	Phenanthrene	15.0		10	0.10
108-95-2	Phenol	15.7		10	0.60
129-00-0	Pyrene	14.4		10	0.10
122-66-7	1,2-Diphenylhydrazine	17.1		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol	76		10-135
118-79-6	2,4,6-Tribromophenol	91		10-142
4165-60-0	Nitrobenzene-d5	76		44-110
4165-62-2	Phenol-d5	77		10-132
1718-51-0	Terphenyl-d14	76		24-135
321-60-8	2-Fluorobiphenyl (Surr)	70		38-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-150974/10-A

Matrix: Water | Lab File ID: 41012005.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 10/10/2014 07:55

Sample wt/vol: 1000(mL) | Date Analyzed: 10/12/2014 12:22

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.: 151224 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	13.5		10	0.28
88-06-2	2,4,6-Trichlorophenol	15.8		10	0.80
120-83-2	2,4-Dichlorophenol	15.1		10	0.80
105-67-9	2,4-Dimethylphenol	14.1		10	0.80
121-14-2	2,4-Dinitrotoluene	17.3		10	0.27
606-20-2	2,6-Dinitrotoluene	16.7		10	0.80
91-58-7	2-Chloronaphthalene	14.1		10	0.10
95-57-8	2-Chlorophenol	14.9		10	0.29
88-75-5	2-Nitrophenol	16.0		10	0.28
91-94-1	3,3'-Dichlorobenzidine	36.5		10	0.37
534-52-1	4,6-Dinitro-2-methylphenol	35.2	J	50	2.4
101-55-3	4-Bromophenyl phenyl ether	15.5		10	0.80
7005-72-3	4-Chlorophenyl phenyl ether	15.6		10	0.30
100-02-7	4-Nitrophenol	17.4	J	50	2.4
83-32-9	Acenaphthene	14.6		10	0.10
208-96-8	Acenaphthylene	14.7		10	0.10
120-12-7	Anthracene	15.2		10	0.10
92-87-5	Benzidine	40.3		5.0	2.4
56-55-3	Benzo[a]anthracene	12.7		10	0.10
50-32-8	Benzo[a]pyrene	11.7		10	0.10
205-99-2	Benzo[b]fluoranthene	12.3		10	0.10
191-24-2	Benzo[g,h,i]perylene	11.4		10	0.10
207-08-9	Benzo[k]fluoranthene	11.5		10	0.10
111-91-1	Bis(2-chloroethoxy)methane	15.0		10	0.32
111-44-4	Bis(2-chloroethyl)ether	14.3		10	0.10
117-81-7	Bis(2-ethylhexyl) phthalate	14.2		10	1.7
108-60-1	2,2'-oxybis[1-chloropropane]	14.3		10	0.40
85-68-7	Butyl benzyl phthalate	13.2		10	0.80
218-01-9	Chrysene	13.2		10	0.10
53-70-3	Dibenz(a,h)anthracene	11.6		10	0.10
84-66-2	Diethyl phthalate	16.1		10	0.60
131-11-3	Dimethyl phthalate	15.0		10	0.29
84-74-2	Di-n-butyl phthalate	15.4		10	1.7
117-84-0	Di-n-octyl phthalate	11.4		10	0.80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-150974/10-A

Matrix: Water | Lab File ID: 41012005.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 10/10/2014 07:55

Sample wt/vol: 1000(mL) | Date Analyzed: 10/12/2014 12:22

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.: 151224 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	15.0		10	0.10
86-73-7	Fluorene	15.6		10	0.10
118-74-1	Hexachlorobenzene	15.3		10	0.10
87-68-3	Hexachlorobutadiene	13.0		10	0.27
77-47-4	Hexachlorocyclopentadiene	9.14	J	10	0.24
67-72-1	Hexachloroethane	11.6		10	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	11.6		10	0.10
78-59-1	Isophorone	14.6		10	0.27
91-20-3	Naphthalene	13.7		10	0.10
98-95-3	Nitrobenzene	14.2		10	0.040
62-75-9	N-Nitrosodimethylamine	10.6		1.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	14.5		10	0.80
86-30-6	N-Nitrosodiphenylamine	31.8		10	0.31
59-50-7	4-Chloro-3-methylphenol	15.1		10	0.80
87-86-5	Pentachlorophenol	22.0		10	2.4
85-01-8	Phenanthrene	15.0		10	0.10
108-95-2	Phenol	7.46	J	10	0.60
129-00-0	Pyrene	14.6		10	0.10
122-66-7	1,2-Diphenylhydrazine	14.6		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol	56		10-135
118-79-6	2,4,6-Tribromophenol	96		10-142
4165-60-0	Nitrobenzene-d5	72		44-110
4165-62-2	Phenol-d5	37		10-132
1718-51-0	Terphenyl-d14	63		24-135
321-60-8	2-Fluorobiphenyl (Surr)	75		38-110

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A4HP9 Start Date: 10/05/2014 17:43

Analysis Batch Number: 150155 End Date: 10/06/2014 04:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-150155/1		10/05/2014 17:43	1	41005001.D	RXI-5SILMS 0.45(mm)
STD5 240-150155/2 IC		10/05/2014 18:03	1	41005002.D	RXI-5SILMS 0.45(mm)
STD4 240-150155/3 IC		10/05/2014 18:28	1	41005003.D	RXI-5SILMS 0.45(mm)
STD3 240-150155/4 IC		10/05/2014 18:53	1	41005004.D	RXI-5SILMS 0.45(mm)
STD2 240-150155/5 IC		10/05/2014 19:18	1	41005005.D	RXI-5SILMS 0.45(mm)
STD1 240-150155/6 IC		10/05/2014 19:42	1	41005006.D	RXI-5SILMS 0.45(mm)
STD9 240-150155/7 IC		10/05/2014 20:07	1	41005007.D	RXI-5SILMS 0.45(mm)
STD8 240-150155/8 IC		10/05/2014 20:32	1	41005008.D	RXI-5SILMS 0.45(mm)
STD7 240-150155/9 IC		10/05/2014 20:56	1	41005009.D	RXI-5SILMS 0.45(mm)
STD6 240-150155/10 ICIS		10/05/2014 21:21	1	41005010.D	RXI-5SILMS 0.45(mm)
ICV 240-150155/11		10/05/2014 21:46	1	41005011.D	RXI-5SILMS 0.45(mm)
STD5 240-150155/12 IC		10/05/2014 22:10	1		RXI-5SILMS 0.45(mm)
STD4 240-150155/13 IC		10/05/2014 22:35	1		RXI-5SILMS 0.45(mm)
STD3 240-150155/14 IC		10/05/2014 23:00	1		RXI-5SILMS 0.45(mm)
STD2 240-150155/15 IC		10/05/2014 23:24	1		RXI-5SILMS 0.45(mm)
STD6 240-150155/16 IC		10/05/2014 23:49	1		RXI-5SILMS 0.45(mm)
STD7 240-150155/17 IC		10/06/2014 00:14	1		RXI-5SILMS 0.45(mm)
STD8 240-150155/18 IC		10/06/2014 00:38	1		RXI-5SILMS 0.45(mm)
STD9 240-150155/19 IC		10/06/2014 01:03	1		RXI-5SILMS 0.45(mm)
ICV 240-150155/20		10/06/2014 01:28	1		RXI-5SILMS 0.45(mm)
STD5 240-150155/21 IC		10/06/2014 01:52	1		RXI-5SILMS 0.45(mm)
STD4 240-150155/22 IC		10/06/2014 02:17	1		RXI-5SILMS 0.45(mm)
STD3 240-150155/23 IC		10/06/2014 02:42	1		RXI-5SILMS 0.45(mm)
STD2 240-150155/24 IC		10/06/2014 03:06	1		RXI-5SILMS 0.45(mm)
STD6 240-150155/25 IC		10/06/2014 03:31	1		RXI-5SILMS 0.45(mm)
STD7 240-150155/26 IC		10/06/2014 03:55	1		RXI-5SILMS 0.45(mm)
STD8 240-150155/27 IC		10/06/2014 04:20	1		RXI-5SILMS 0.45(mm)
STD9 240-150155/28 IC		10/06/2014 04:45	1		RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A4HP9 Start Date: 10/08/2014 06:58

Analysis Batch Number: 150544 End Date: 10/08/2014 23:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-150544/1		10/08/2014 06:58	1	41008001.D	RXI-5SILMS 0.45(mm)
CCV 240-150544/2 CCVIS		10/08/2014 07:18	1	41008002.D	RXI-5SILMS 0.45(mm)
CCV 240-150544/3		10/08/2014 07:45	1	41008003.D	RXI-5SILMS 0.45(mm)
CCV 240-150544/5		10/08/2014 08:34	1	41008005.D	RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 09:48	1		RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 10:13	1		RXI-5SILMS 0.45(mm)
MB 240-150089/12-A		10/08/2014 10:37	1	41008010.D	RXI-5SILMS 0.45(mm)
LCS 240-150089/13-A		10/08/2014 11:02	1	41008011.D	RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 18:54	100		RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 19:18	1		RXI-5SILMS 0.45(mm)
240-42475-2	DSP-1-092914 COMP	10/08/2014 19:43	1	41008032.D	RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 20:08	1		RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 20:33	2		RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 20:57	1		RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 21:22	1		RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 21:47	1		RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 22:11	1		RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 22:36	4		RXI-5SILMS 0.45(mm)
ZZZZZ		10/08/2014 23:01	5		RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A4HP9 Start Date: 10/12/2014 09:48

Analysis Batch Number: 151224 End Date: 10/13/2014 01:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-151224/1		10/12/2014 09:48	1	41012001.D	RXI-5SILMS 0.45(mm)
CCV 240-151224/2 CCVIS		10/12/2014 10:11	1	41012002.D	RXI-5SILMS 0.45(mm)
CCV 240-151224/3		10/12/2014 10:36	1	41012003.D	RXI-5SILMS 0.45(mm)
MB 240-150974/9-A		10/12/2014 11:57	1	41012004.D	RXI-5SILMS 0.45(mm)
LCS 240-150974/10-A		10/12/2014 12:22	1	41012005.D	RXI-5SILMS 0.45(mm)
240-42475-2 RE	DSP-1-092914 COMP RE	10/12/2014 22:59	1	41012030.D	RXI-5SILMS 0.45(mm)
ZZZZZ		10/12/2014 23:23	1		RXI-5SILMS 0.45(mm)
ZZZZZ		10/12/2014 23:47	1		RXI-5SILMS 0.45(mm)
ZZZZZ		10/13/2014 00:12	2		RXI-5SILMS 0.45(mm)
ZZZZZ		10/13/2014 00:36	4		RXI-5SILMS 0.45(mm)
ZZZZZ		10/13/2014 01:01	5		RXI-5SILMS 0.45(mm)
ZZZZZ		10/13/2014 01:25	10		RXI-5SILMS 0.45(mm)
ZZZZZ		10/13/2014 01:49	100		RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 150089 Batch Start Date: 10/04/14 08:50 Batch Analyst: Earle, Steve

Batch Method: 625 Batch End Date: 10/06/14 09:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	EXBNASPIKE 00027
240-42475-H-2	DSP-1-092914 COMP	625, 625	T	1020 mL	2 mL	6 SU	12 SU	2 SU	
MB 240-150089/12		625, 625		1000 mL	2 mL	7 SU	12 SU	2 SU	
LCS 240-150089/13		625, 625		1000 mL	2 mL	7 SU	12 SU	2 SU	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXBNASURR W 00017	AnalysisComment				
240-42475-H-2	DSP-1-092914 COMP	625, 625	T	1 mL	assoc w/150090				
MB 240-150089/12		625, 625		1 mL	assoc w/150090				
LCS 240-150089/13		625, 625		1 mL					

Batch Notes	
Acid used for pH adjust Lot #	1555636
Base used for pH adjust Lot #	1555644
Na2SO4 Lot Number	1555589
Prep Solvent Lot #	1691137

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 150974 Batch Start Date: 10/10/14 07:55 Batch Analyst: Ross, Justin

Batch Method: 625 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	EXBNASPIKE 00028
240-42475-C-2	DSP-1-092914 COMP	625, 625	T	1020 mL	2 mL	6 SU	12 SU	2 SU	
MB 240-150974/9		625, 625		1000 mL	2 mL	7 SU	12 SU	2 SU	
LCS 240-150974/10		625, 625		1000 mL	2 mL	7 SU	12 SU	2 SU	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXBNASURR W 00017					
240-42475-C-2	DSP-1-092914 COMP	625, 625	T	1 mL					
MB 240-150974/9		625, 625		1 mL					
LCS 240-150974/10		625, 625		1 mL					

Batch Notes	
Acid used for pH adjust Lot #	1555636
Base used for pH adjust Lot #	1555644
Na2SO4 Lot Number	1555589
Prep Solvent Lot #	1699487

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 625 Dioxin Screen

Dioxin Screen (GC/MS SIM) by Method 625

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab File ID: 41011034a.d Lab Sample ID: MB 240-150090/6-A

Matrix: Water Date Extracted: 10/04/2014 08:12

Instrument ID: A4HP9 Date Analyzed: 10/11/2014 22:28

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
DSP-1-092914 COMP	240-42475-2	41011037a.d	10/11/2014 23:23

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab File ID: BFB Injection Date:

Instrument ID: BFB Injection Time:

Lab File ID: DFTPP Injection Date:

Instrument ID: DFTPP Injection Time:

Analysis Batch No.:

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE

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
	STD 240-151199/2	41011031a.d	10/11/2014	21:32
	MB 240-150090/6-A	41011034a.d	10/11/2014	22:28
DSP-1-092914 COMP	240-42475-2	41011037a.d	10/11/2014	23:23

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: DSP-1-092914 COMP | Lab Sample ID: 240-42475-2

Matrix: Water | Lab File ID: 41011037a.d

Analysis Method: 625 | Date Collected: 09/29/2014 12:00

Extract. Method: 3520C | Date Extracted: 10/04/2014 08:12

Sample wt/vol: 1020(mL) | Date Analyzed: 10/11/2014 23:23

Con. Extract Vol.: 0.4(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 151199 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1746-01-6	2,3,7,8-TCDD	NEG			

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 151199

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2014 21:32 Calibration End Date: 10/11/2014 21:32 Calibration ID: 24658

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-151199/2	41011031a.d

ANALYTE	LVL 1										RT WINDOW	AVG RT
2,3,7,8-TCDD	8.918										8.418 - 9.418	8.918

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 151199

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2014 21:32 Calibration End Date: 10/11/2014 21:32 Calibration ID: 24658

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-151199/2	41011031a.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
2,3,7,8-TCDD	842.90				Ave		842.900000						30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 151199

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/11/2014 21:32 Calibration End Date: 10/11/2014 21:32 Calibration ID: 24658

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-151199/2	41011031a.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
2,3,7,8-TCDD	Ave	42145					50.0				

Curve Type Legend:

Ave = Average

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-150090/6-A

Matrix: Water | Lab File ID: 41011034a.d

Analysis Method: 625 | Date Collected:

Extract. Method: 3520C | Date Extracted: 10/04/2014 08:12

Sample wt/vol: 1000(mL) | Date Analyzed: 10/11/2014 22:28

Con. Extract Vol.: 0.4(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 151199 | Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1746-01-6	2,3,7,8-TCDD	NEG			

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A4HP9 Start Date: 10/11/2014 09:09

Analysis Batch Number: 151199 End Date: 10/12/2014 01:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-151199/1		10/11/2014 09:09	1	41011001a.d	RXI-5SILMS 0.45(mm)
STD 240-151199/2 IC		10/11/2014 21:32	1	41011031a.d	RXI-5SILMS 0.45(mm)
ZZZZZ		10/11/2014 21:51	1		RXI-5SILMS 0.45(mm)
ZZZZZ		10/11/2014 22:09	1		RXI-5SILMS 0.45(mm)
MB 240-150090/6-A		10/11/2014 22:28	1	41011034a.d	RXI-5SILMS 0.45(mm)
ZZZZZ		10/11/2014 22:46	1		RXI-5SILMS 0.45(mm)
ZZZZZ		10/11/2014 23:05	1		RXI-5SILMS 0.45(mm)
240-42475-2	DSP-1-092914 COMP	10/11/2014 23:23	1	41011037a.d	RXI-5SILMS 0.45(mm)
ZZZZZ		10/11/2014 23:42	4		RXI-5SILMS 0.45(mm)
ZZZZZ		10/12/2014 00:00	5		RXI-5SILMS 0.45(mm)
ZZZZZ		10/12/2014 00:18	20		RXI-5SILMS 0.45(mm)
ZZZZZ		10/12/2014 00:37	50		RXI-5SILMS 0.45(mm)
ZZZZZ		10/12/2014 00:55	50		RXI-5SILMS 0.45(mm)
ZZZZZ		10/12/2014 01:14	100		RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 150090 Batch Start Date: 10/04/14 08:50 Batch Analyst: Earle, Steve

Batch Method: 3520C Batch End Date: 10/06/14 09:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	AnalysisComment
240-42475-H-2	DSP-1-092914 COMP	3520C, 625	T	1020 mL	0.4 mL	6	12	2	assoc w/;150089
MB 240-150090/6		3520C, 625		1000 mL	0.4 mL	7	12	2	assoc w/;150089

Batch Notes	
Acid used for pH adjust Lot #	1555636
Base used for pH adjust Lot #	1555644
Na2SO4 Lot Number	1555589
Prep Solvent Lot #	1691137

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 608
Pesticides

Organochlorine Pesticides (GC) by Method 608

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm) GC Column (2): CLP-1 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
DSP-1-092914 COMP	240-42475-2	76	76	94	93

	QC LIMITS
TCX = Tetrachloro-m-xylene	10-151
DCB = DCB Decachlorobiphenyl	10-151

Column to be used to flag recovery values

FORM II 608

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: CCV 240-150213/6 Date Analyzed: 10/06/2014 11:55

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): P3100606.D Heated Purge: (Y/N) N

Calibration ID: 24533

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.44	12.75	
UPPER LIMIT				3.47	12.78	
LOWER LIMIT				3.41	12.72	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-150213/6 CCVRT		10/06/2014 11:55	P3100606.D	3.44	12.75	
240-42475-2	DSP-1-092914 COMP	10/06/2014 12:17	P3100607.D	3.44	12.75	
CCV 240-150213/13		10/06/2014 14:34	P3100613.D	3.44	12.75	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 608

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: CCV 240-150213/6 Date Analyzed: 10/06/2014 11:55

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P3100606.D Heated Purge: (Y/N) N

Calibration ID: 24534

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				4.08	14.27	
UPPER LIMIT				4.11	14.30	
LOWER LIMIT				4.05	14.24	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-150213/6 CCVRT		10/06/2014 11:55	P3100606.D	4.08	14.27	
240-42475-2	DSP-1-092914 COMP	10/06/2014 12:17	P3100607.D	4.08	14.27	
CCV 240-150213/13		10/06/2014 14:34	P3100613.D	4.08	14.27	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 608

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Client Sample ID: DSP-1-092914 COMP Lab Sample ID: 240-42475-2

Instrument ID (1): A2HP3 Instrument ID (2): A2HP3

Date Analyzed (1): 10/06/2014 12:17 Date Analyzed (2): 10/06/2014 12:17

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): CLP-1 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		4.92	4.90	4.96	0.043		19.9
	2		4.16	4.10	4.16	0.035		
4,4'-DDT	1		11.24	11.22	11.28	0.15		140.3
	2		9.60	9.59	9.65	0.026		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: DSP-1-092914 COMP | Lab Sample ID: 240-42475-2

Matrix: Water | Lab File ID: P3100607.D

Analysis Method: 608 | Date Collected: 09/29/2014 12:00

Extraction Method: 608 | Date Extracted: 10/01/2014 07:37

Sample wt/vol: 1030(mL) | Date Analyzed: 10/06/2014 12:17

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 150213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	0.013	U	0.049	0.013
319-85-7	beta-BHC	0.013	U	0.049	0.013
319-86-8	delta-BHC	0.028	U	0.049	0.028
58-89-9	gamma-BHC (Lindane)	0.012	U	0.049	0.012
57-74-9	Chlordane (technical)	0.032	U	0.49	0.032
STL00379	Chlordane (technical) Peak 1	0.032	U	0.49	0.032
STL00380	Chlordane (technical) Peak 2	0.032	U	0.49	0.032
STL00084	Chlordane (technical) Peak 3	0.032	U	0.49	0.032
STL00065	Chlordane (technical) Peak 4	0.032	U	0.49	0.032
72-54-8	4,4'-DDD	0.017	U	0.049	0.017
72-55-9	4,4'-DDE	0.0087	U	0.049	0.0087
50-29-3	4,4'-DDT	0.026	J p	0.049	0.014
60-57-1	Dieldrin	0.013	U	0.049	0.013
959-98-8	Endosulfan I	0.016	U	0.049	0.016
33213-65-9	Endosulfan II	0.015	U	0.049	0.015
1031-07-8	Endosulfan sulfate	0.011	U	0.049	0.011
72-20-8	Endrin	0.012	U	0.049	0.012
7421-93-4	Endrin aldehyde	0.0078	U	0.049	0.0078
76-44-8	Heptachlor	0.0049	U	0.049	0.0049
1024-57-3	Heptachlor epoxide	0.014	U	0.049	0.014
8001-35-2	Toxaphene	0.19	U	1.9	0.19
STL00100	Toxaphene Peak 1	0.19	U	1.9	0.19
STL00109	Toxaphene Peak 2	0.19	U	1.9	0.19
STL00220	Toxaphene Peak 3	0.19	U	1.9	0.19
STL00083	Toxaphene Peak 4	0.19	U	1.9	0.19
STL00051	Toxaphene Peak 5	0.19	U	1.9	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	93		10-151
877-09-8	Tetrachloro-m-xylene	76		10-151

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: DSP-1-092914 COMP | Lab Sample ID: 240-42475-2

Matrix: Water | Lab File ID: P3100607.D

Analysis Method: 608 | Date Collected: 09/29/2014 12:00

Extraction Method: 608 | Date Extracted: 10/01/2014 07:37

Sample wt/vol: 1030(mL) | Date Analyzed: 10/06/2014 12:17

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 150213 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
319-84-6	alpha-BHC	0.043	J	0.049	0.014

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	94		10-151
877-09-8	Tetrachloro-m-xylene	76		10-151

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 21:54 Calibration End Date: 07/31/2014 23:20 Calibration ID: 23582

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/19	P3073119.D
Level 2	STD 240-140995/20	P3073120.D
Level 3	STD 240-140995/21	P3073121.D
Level 4	STD 240-140995/22	P3073122.D
Level 5	STD 240-140995/23	P3073123.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	9.578	9.580	9.578	9.579	9.576						9.547 - 9.607	9.578
Toxaphene Peak 2	10.042	10.039	10.039	10.037	10.039						10.008 - 10.068	10.039
Toxaphene Peak 3	10.353	10.352	10.353	10.351	10.352						10.323 - 10.383	10.352
Toxaphene Peak 4	10.692	10.692	10.691	10.693	10.689						10.662 - 10.722	10.691
Toxaphene Peak 5	10.800	10.801	10.802	10.802	10.799						10.769 - 10.829	10.801

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 21:54 Calibration End Date: 07/31/2014 23:20 Calibration ID: 23582

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/19	P3073119.D
Level 2	STD 240-140995/20	P3073120.D
Level 3	STD 240-140995/21	P3073121.D
Level 4	STD 240-140995/22	P3073122.D
Level 5	STD 240-140995/23	P3073123.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	32786 35453	33528	33220	33841	Ave		33765.3830				3.0		10.0			
Toxaphene Peak 2	31233 31902	31357	31203	32833	Ave		31705.6889				2.2		10.0			
Toxaphene Peak 3	19993 22762	21724	21459	21595	Ave		21506.5251				4.6		10.0			
Toxaphene Peak 4	29216 29878	30608	29135	30110	Ave		29789.4233				2.1		10.0			
Toxaphene Peak 5	27039 33247	29068	29780	31326	Ave		30091.9357				7.8		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 21:54 Calibration End Date: 07/31/2014 23:20 Calibration ID: 23582

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/19	P3073119.D
Level 2	STD 240-140995/20	P3073120.D
Level 3	STD 240-140995/21	P3073121.D
Level 4	STD 240-140995/22	P3073122.D
Level 5	STD 240-140995/23	P3073123.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Ave	6557138	16763983	33219843	67681207	177264062	200	500	1000	2000	5000
Toxaphene Peak 2	Ave	6246572	15678357	31203227	65666533	159511885	200	500	1000	2000	5000
Toxaphene Peak 3	Ave	3998500	10862087	21459101	43189484	113810543	200	500	1000	2000	5000
Toxaphene Peak 4	Ave	5843170	15304213	29135211	60220173	149387714	200	500	1000	2000	5000
Toxaphene Peak 5	Ave	5407868	14533841	29780233	62651814	166232583	200	500	1000	2000	5000

Curve Type Legend:
Ave = Average

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 21:54 Calibration End Date: 07/31/2014 23:20 Calibration ID: 23583

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/19	P3073119.D
Level 2	STD 240-140995/20	P3073120.D
Level 3	STD 240-140995/21	P3073121.D
Level 4	STD 240-140995/22	P3073122.D
Level 5	STD 240-140995/23	P3073123.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	10.926	10.926	10.927	10.927	10.925						10.895 - 10.955	10.926
Toxaphene Peak 2	11.097	11.096	11.097	11.096	11.096						11.066 - 11.126	11.096
Toxaphene Peak 3	11.526	11.525	11.526	11.526	11.524						11.494 - 11.554	11.525
Toxaphene Peak 4	12.262	12.262	12.263	12.262	12.262						12.230 - 12.290	12.262
Toxaphene Peak 5	12.356	12.356	12.354	12.357	12.355						12.324 - 12.384	12.356

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 21:54 Calibration End Date: 07/31/2014 23:20 Calibration ID: 23583

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/19	P3073119.D
Level 2	STD 240-140995/20	P3073120.D
Level 3	STD 240-140995/21	P3073121.D
Level 4	STD 240-140995/22	P3073122.D
Level 5	STD 240-140995/23	P3073123.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	28912 33461	32323	28398	30868	Ave		30792.4290				7.0		10.0			
Toxaphene Peak 2	27877 32633	31508	28727	31055	Ave		30360.1405				6.5		10.0			
Toxaphene Peak 3	18578 24179	22296	20722	22302	Ave		21615.2886				9.7		10.0			
Toxaphene Peak 4	23546 31643	29687	27671	29811	Lin1	-1712255.1	31450.8659							0.9990		0.9900
Toxaphene Peak 5	6320.3 10956	9576.3	9089.7	9963.2	Lin1	-983844.84	10893.1106							0.9980		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/31/2014 21:54 Calibration End Date: 07/31/2014 23:20 Calibration ID: 23583

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/19	P3073119.D
Level 2	STD 240-140995/20	P3073120.D
Level 3	STD 240-140995/21	P3073121.D
Level 4	STD 240-140995/22	P3073122.D
Level 5	STD 240-140995/23	P3073123.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Ave	5782484	16161451	28398164	61736182	167302840	200	500	1000	2000	5000
Toxaphene Peak 2	Ave	5575469	15753960	28727187	62110704	163164492	200	500	1000	2000	5000
Toxaphene Peak 3	Ave	3715688	11147949	20721555	44603173	120894817	200	500	1000	2000	5000
Toxaphene Peak 4	Lin1	4709113	14843418	27671184	59622056	158215487	200	500	1000	2000	5000
Toxaphene Peak 5	Lin1	1264065	4788163	9089747	19926441	54782422	200	500	1000	2000	5000

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2014 00:04 Calibration End Date: 08/01/2014 01:30 Calibration ID: 23588

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/25	P3073125.D
Level 2	STD 240-140995/26	P3073126.D
Level 3	STD 240-140995/27	P3073127.D
Level 4	STD 240-140995/28	P3073128.D
Level 5	STD 240-140995/29	P3073129.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Chlordane (technical) Peak 1	5.132	5.133	5.133	5.132	5.132						5.103 - 5.163	5.132
Chlordane (technical) Peak 2	6.009	6.011	6.012	6.011	6.011						5.982 - 6.042	6.011
Chlordane (technical) Peak 3	7.284	7.286	7.287	7.284	7.285						7.257 - 7.317	7.285
Chlordane (technical) Peak 4	7.628	7.627	7.630	7.627	7.627						7.600 - 7.660	7.628

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2014 00:04 Calibration End Date: 08/01/2014 01:30 Calibration ID: 23588

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/25	P3073125.D
Level 2	STD 240-140995/26	P3073126.D
Level 3	STD 240-140995/27	P3073127.D
Level 4	STD 240-140995/28	P3073128.D
Level 5	STD 240-140995/29	P3073129.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Chlordane (technical) Peak 1	42133 38722	40405	38937	38942	Ave		39827.8664				3.6		10.0			
Chlordane (technical) Peak 2	52419 42661	51360	46242	43664	Ave		47269.1664				9.4		10.0			
Chlordane (technical) Peak 3	162488 157036	155333	156818	157968	Ave		157928.468				1.7		10.0			
Chlordane (technical) Peak 4	243576 243839	249104	247426	247646	Ave		246318.244				1.0		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2014 00:04 Calibration End Date: 08/01/2014 01:30 Calibration ID: 23588

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/25	P3073125.D
Level 2	STD 240-140995/26	P3073126.D
Level 3	STD 240-140995/27	P3073127.D
Level 4	STD 240-140995/28	P3073128.D
Level 5	STD 240-140995/29	P3073129.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	Ave	842664	2020236	3893684	7788476	19361096	20.0	50.0	100	200	500
Chlordane (technical) Peak 2	Ave	1048389	2567992	4624198	8732736	21330441	20.0	50.0	100	200	500
Chlordane (technical) Peak 3	Ave	3249762	7766630	15681771	31593603	78517958	20.0	50.0	100	200	500
Chlordane (technical) Peak 4	Ave	4871525	12455209	24742573	49529179	121919582	20.0	50.0	100	200	500

Curve Type Legend:
Ave = Average

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2014 00:04 Calibration End Date: 08/01/2014 01:30 Calibration ID: 23589

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/25	P3073125.D
Level 2	STD 240-140995/26	P3073126.D
Level 3	STD 240-140995/27	P3073127.D
Level 4	STD 240-140995/28	P3073128.D
Level 5	STD 240-140995/29	P3073129.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Chlordane (technical) Peak 1	6.197	6.196	6.197	6.196	6.197						6.167 - 6.227	6.197
Chlordane (technical) Peak 2	7.796	7.794	7.796	7.795	7.796						7.766 - 7.826	7.795
Chlordane (technical) Peak 3	9.162	9.161	9.162	9.160	9.162						9.132 - 9.192	9.161
Chlordane (technical) Peak 4	9.464	9.464	9.467	9.467	9.465						9.437 - 9.497	9.465

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2014 00:04 Calibration End Date: 08/01/2014 01:30 Calibration ID: 23589

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/25	P3073125.D
Level 2	STD 240-140995/26	P3073126.D
Level 3	STD 240-140995/27	P3073127.D
Level 4	STD 240-140995/28	P3073128.D
Level 5	STD 240-140995/29	P3073129.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Chlordane (technical) Peak 1	31163 28153	32080	29770	30495	Ave		30332.4022				4.9		10.0			
Chlordane (technical) Peak 2	40759 28848	37508	35386	31867	Lin1	326835.141	29186.5865							0.9960		0.9900
Chlordane (technical) Peak 3	112289 112491	111170	109677	112999	Ave		111725.390				1.2		10.0			
Chlordane (technical) Peak 4	99797 100800	103083	100228	100819	Ave		100945.185				1.3		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 140995

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/01/2014 00:04 Calibration End Date: 08/01/2014 01:30 Calibration ID: 23589

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-140995/25	P3073125.D
Level 2	STD 240-140995/26	P3073126.D
Level 3	STD 240-140995/27	P3073127.D
Level 4	STD 240-140995/28	P3073128.D
Level 5	STD 240-140995/29	P3073129.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	Ave	623262	1604023	2976975	6099077	14076658	20.0	50.0	100	200	500
Chlordane (technical) Peak 2	Lin1	815172	1875377	3538649	6373448	14423860	20.0	50.0	100	200	500
Chlordane (technical) Peak 3	Ave	2245781	5558508	10967740	22599898	56245424	20.0	50.0	100	200	500
Chlordane (technical) Peak 4	Ave	1995931	5154149	10022754	20163786	50399962	20.0	50.0	100	200	500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 149897

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 14:02 Calibration End Date: 10/03/2014 15:54 Calibration ID: 24533

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-149897/6	P3100106.D
Level 2	STD 240-149897/7	P3100107.D
Level 3	STD 240-149897/8	P3100108.D
Level 4	STD 240-149897/9	P3100109.D
Level 5	STD 240-149897/10	P3100110.D
Level 6	STD 240-149897/11	P3100111.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	4.129	4.125	4.128	4.125	4.126	4.131					4.095 - 4.155	4.127
gamma-BHC (Lindane)	4.503	4.499	4.503	4.499	4.500	4.506					4.469 - 4.529	4.502
beta-BHC	4.633	4.630	4.634	4.630	4.631	4.636					4.600 - 4.660	4.632
delta-BHC	4.843	4.840	4.843	4.839	4.840	4.846					4.810 - 4.870	4.842
Heptachlor	5.115	5.111	5.116	5.113	5.112	5.120					5.083 - 5.143	5.115
Aldrin	5.555	5.551	5.556	5.553	5.553	5.559					5.523 - 5.583	5.555
Heptachlor epoxide	6.758	6.752	6.758	6.752	6.752	6.761					6.723 - 6.783	6.756
gamma-Chlordane	7.051	7.044	7.050	7.045	7.046	7.056					7.016 - 7.076	7.049
alpha-Chlordane	7.395	7.390	7.397	7.391	7.392	7.401					7.362 - 7.422	7.394
Endosulfan I	7.685	7.681	7.685	7.679	7.681	7.688					7.653 - 7.713	7.683
4,4'-DDE	7.787	7.782	7.788	7.783	7.782	7.792					7.754 - 7.814	7.786
Dieldrin	8.261	8.255	8.259	8.256	8.253	8.262					8.225 - 8.285	8.258
Endrin	8.725	8.720	8.725	8.720	8.720	8.725					8.689 - 8.749	8.723
4,4'-DDD	9.096	9.090	9.097	9.091	9.092	9.097					9.062 - 9.122	9.094
Endosulfan II	9.185	9.180	9.184	9.178	9.179	9.186					9.148 - 9.208	9.182
4,4'-DDT	9.626	9.619	9.623	9.619	9.619	9.626					9.590 - 9.650	9.622
Endrin aldehyde	9.995	9.989	9.993	9.990	9.987	9.995					9.960 - 10.020	9.992
Methoxychlor	10.596	10.590	10.595	10.592	10.590	10.595					10.560 - 10.620	10.593
Endosulfan sulfate	10.726	10.722	10.726	10.721	10.722	10.726					10.692 - 10.752	10.724
Endrin ketone	11.129	11.125	11.127	11.124	11.125	11.128					11.094 - 11.154	11.126
Tetrachloro-m-xylene	3.441	3.438	3.440	3.438	3.438	3.444					3.408 - 3.468	3.440
DCB Decachlorobiphenyl	12.750	12.749	12.750	12.748	12.747	12.751					12.718 - 12.778	12.749

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 149897

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 14:02 Calibration End Date: 10/03/2014 15:54 Calibration ID: 24533

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-149897/6	P3100106.D
Level 2	STD 240-149897/7	P3100107.D
Level 3	STD 240-149897/8	P3100108.D
Level 4	STD 240-149897/9	P3100109.D
Level 5	STD 240-149897/10	P3100110.D
Level 6	STD 240-149897/11	P3100111.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	1052356 1345410	1065099 1378954	1228851	1332230	Lin1	-2306878.1	1377996.49							0.9990		0.9900
gamma-BHC (Lindane)	949328 1189711	947812 1223091	1083787	1178705	Lin1	-1993779.3	1220016.88							0.9990		0.9900
beta-BHC	450804 467116	423679 479274	444878	470796	Ave		456091.299				4.5		10.0			
delta-BHC	904309 1201148	902216 1244348	1057223	1187250	Lin1	-2506071.2	1239378.31							0.9990		0.9900
Heptachlor	945957 1130188	927745 1136100	1021980	1128850	Ave		1048469.96				9.2		10.0			
Aldrin	993279 1173846	979673 1189195	1088385	1165231	Ave		1098268.09				8.5		10.0			
Heptachlor epoxide	927349 1013345	897569 1020790	961352	1022589	Ave		973832.346				5.5		10.0			
gamma-Chlordane	931956 1075184	907544 1111873	980819	1064468	Ave		1011973.98				8.3		10.0			
alpha-Chlordane	948080 1053653	924227 1082728	979745	1048623	Ave		1006175.97				6.4		10.0			
Endosulfan I	864740 960258	838841 964893	898184	968804	Ave		915953.048				6.2		10.0			
4,4'-DDE	752904 979583	759731 1020231	850974	973419	Lin1	-1981868.2	1013340.54							0.9990		0.9900
Dieldrin	866519 1053351	855378 1070346	955632	1058351	Ave		976596.070				10.0		10.0			
Endrin	745330 904629	731538 919816	808541	905072	Ave		835821.028				10.0		10.0			
4,4'-DDD	571127 745224	561303 785857	638031	750990	Lin1	-1646156.9	778306.801							0.9980		0.9900
Endosulfan II	765247 864024	734098 855254	806675	900713	Ave		821001.700				7.8		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 149897

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 14:02 Calibration End Date: 10/03/2014 15:54 Calibration ID: 24533

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	608351 771116	584532 817762	657118	775504	Lin1	-1677237.6	807224.548							0.9980		0.9900
Endrin aldehyde	674887 672807	603304 676595	630485	712522	Ave		661766.592				5.8		10.0			
Methoxychlor	352913 372193	338439 365715	345619	402442	Ave		362886.886				6.3		10.0			
Endosulfan sulfate	708797 772711	674924 768422	710010	815657	Ave		741753.631				7.1		10.0			
Endrin ketone	834524 928671	814692 925734	872965	990957	Ave		894590.513				7.4		10.0			
Tetrachloro-m-xylene	700951 747922	670536 754188	711059	749389	Ave		722341.209				4.7		10.0			
DCB Decachlorobiphenyl	762526 700767	701664 690874	687212	766235	Ave		718212.973				5.0		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 149897

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 14:02 Calibration End Date: 10/03/2014 15:54 Calibration ID: 24533

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-149897/6	P3100106.D
Level 2	STD 240-149897/7	P3100107.D
Level 3	STD 240-149897/8	P3100108.D
Level 4	STD 240-149897/9	P3100109.D
Level 5	STD 240-149897/10	P3100110.D
Level 6	STD 240-149897/11	P3100111.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Lin1	5261778 275790793	10650987	30721270	66611524	134541012	5.00 200	10.0	25.0	50.0	100
gamma-BHC (Lindane)	Lin1	4746640 244618114	9478122	27094684	58935244	118971102	5.00 200	10.0	25.0	50.0	100
beta-BHC	Ave	2254019 95854889	4236792	11121943	23539819	46711625	5.00 200	10.0	25.0	50.0	100
delta-BHC	Lin1	4521544 248869554	9022158	26430582	59362476	120114799	5.00 200	10.0	25.0	50.0	100
Heptachlor	Ave	4729784 227220099	9277448	25549504	56442496	113018759	5.00 200	10.0	25.0	50.0	100
Aldrin	Ave	4966394 237839081	9796733	27209618	58261527	117384576	5.00 200	10.0	25.0	50.0	100
Heptachlor epoxide	Ave	4636746 204157915	8975690	24033811	51129460	101334466	5.00 200	10.0	25.0	50.0	100
gamma-Chlordane	Ave	4659779 222374525	9075437	24520479	53223421	107518417	5.00 200	10.0	25.0	50.0	100
alpha-Chlordane	Ave	4740399 216545665	9242271	24493619	52431127	105365331	5.00 200	10.0	25.0	50.0	100
Endosulfan I	Ave	4323699 192978575	8388407	22454593	48440184	96025751	5.00 200	10.0	25.0	50.0	100
4,4'-DDE	Lin1	3764522 204046185	7597314	21274361	48670929	97958289	5.00 200	10.0	25.0	50.0	100
Dieldrin	Ave	4332595 214069174	8553778	23890788	52917554	105335115	5.00 200	10.0	25.0	50.0	100
Endrin	Ave	3726652 183963183	7315376	20213523	45253616	90462901	5.00 200	10.0	25.0	50.0	100
4,4'-DDD	Lin1	2855636 157171405	5613029	15950783	37549495	74522363	5.00 200	10.0	25.0	50.0	100
Endosulfan II	Ave	3826234 171050704	7340975	20166869	45035664	86402434	5.00 200	10.0	25.0	50.0	100
4,4'-DDT	Lin1	3041757 163552327	5845324	16427947	38775194	77111599	5.00 200	10.0	25.0	50.0	100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 149897

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 14:02 Calibration End Date: 10/03/2014 15:54 Calibration ID: 24533

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	3374434 135319072	6033038	15762122	35626106	67280659	5.00 200	10.0	25.0	50.0	100
Methoxychlor	Ave	1764564 73142979	3384391	8640483	20122124	37219272	5.00 200	10.0	25.0	50.0	100
Endosulfan sulfate	Ave	3543984 153684481	6749240	17750257	40782853	77271124	5.00 200	10.0	25.0	50.0	100
Endrin ketone	Ave	4172619 185146794	8146916	21824129	49547858	92867139	5.00 200	10.0	25.0	50.0	100
Tetrachloro-m-xylene	Ave	3504757 150837663	6705364	17776486	37469470	74792230	5.00 200	10.0	25.0	50.0	100
DCB Decachlorobiphenyl	Ave	3812631 138174867	7016636	17180311	38311727	70076672	5.00 200	10.0	25.0	50.0	100

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 149897

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 14:02 Calibration End Date: 10/03/2014 15:54 Calibration ID: 24534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-149897/6	P3100106.D
Level 2	STD 240-149897/7	P3100107.D
Level 3	STD 240-149897/8	P3100108.D
Level 4	STD 240-149897/9	P3100109.D
Level 5	STD 240-149897/10	P3100110.D
Level 6	STD 240-149897/11	P3100111.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	4.927	4.927	4.928	4.928	4.928	4.929					4.898 - 4.958	4.928
gamma-BHC (Lindane)	5.500	5.500	5.501	5.502	5.502	5.502					5.472 - 5.532	5.501
beta-BHC	5.685	5.685	5.686	5.687	5.687	5.687					5.657 - 5.717	5.686
delta-BHC	6.255	6.255	6.256	6.256	6.256	6.256					6.226 - 6.286	6.256
Heptachlor	6.325	6.326	6.327	6.328	6.327	6.328					6.297 - 6.357	6.327
Aldrin	7.060	7.060	7.062	7.062	7.062	7.062					7.033 - 7.093	7.061
Heptachlor epoxide	8.569	8.568	8.570	8.569	8.569	8.570					8.539 - 8.599	8.569
gamma-Chlordane	8.981	8.980	8.983	8.981	8.982	8.982					8.953 - 9.013	8.982
alpha-Chlordane	9.292	9.290	9.292	9.293	9.292	9.293					9.262 - 9.322	9.292
Endosulfan I	9.360	9.359	9.360	9.361	9.359	9.361					9.330 - 9.390	9.360
4,4'-DDE	9.744	9.741	9.743	9.743	9.743	9.744					9.713 - 9.773	9.743
Dieldrin	9.890	9.889	9.890	9.890	9.891	9.892					9.860 - 9.920	9.890
Endrin	10.413	10.413	10.414	10.413	10.413	10.414					10.384 - 10.444	10.413
4,4'-DDD	10.767	10.774	10.765	10.764	10.764	10.765					10.736 - 10.796	10.767
Endosulfan II	10.789	10.789	10.790	10.788	10.788	10.791					10.760 - 10.820	10.789
4,4'-DDT	11.247	11.248	11.249	11.248	11.247	11.250					11.218 - 11.278	11.248
Endrin aldehyde	11.363	11.363	11.364	11.363	11.362	11.363					11.332 - 11.392	11.363
Endosulfan sulfate	11.788	11.789	11.790	11.789	11.788	11.791					11.759 - 11.819	11.789
Methoxychlor	12.335	12.336	12.336	12.336	12.335	12.336					12.306 - 12.366	12.336
Endrin ketone	12.535	12.536	12.536	12.535	12.535	12.536					12.505 - 12.565	12.536
Tetrachloro-m-xylene	4.080	4.080	4.081	4.081	4.081	4.081					4.051 - 4.111	4.081
DCB Decachlorobiphenyl	14.273	14.274	14.274	14.275	14.274	14.275					14.244 - 14.304	14.274

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 149897

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 14:02 Calibration End Date: 10/03/2014 15:54 Calibration ID: 24534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-149897/6	P3100106.D
Level 2	STD 240-149897/7	P3100107.D
Level 3	STD 240-149897/8	P3100108.D
Level 4	STD 240-149897/9	P3100109.D
Level 5	STD 240-149897/10	P3100110.D
Level 6	STD 240-149897/11	P3100111.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	870637 1145690	877435 1197773	1013944	1111426	Lin1	-2398488.5	1186056.52							0.9990		0.9900
gamma-BHC (Lindane)	810801 1015369	803220 1065538	904712	989554	Lin1	-1933532.5	1052378.16							0.9990		0.9900
beta-BHC	410408 401386	379737 415245	388356	405139	Ave		400045.145				3.4		10.0			
delta-BHC	778464 1025796	770785 1081884	884256	999648	Lin1	-2312447.4	1068000.05							0.9980		0.9900
Heptachlor	779389 918681	745330 952896	810757	893745	Ave		850132.926				9.8		10.0			
Aldrin	805745 946680	776747 991388	855355	918972	Ave		882481.249				9.5		10.0			
Heptachlor epoxide	744345 820491	711864 841793	765043	815688	Ave		783204.047				6.5		10.0			
gamma-Chlordane	726834 841892	698470 885940	762555	826105	Ave		790299.442				9.2		10.0			
alpha-Chlordane	733589 816919	699736 857666	758292	808948	Ave		779191.677				7.5		10.0			
Endosulfan I	684420 758914	652282 773442	700085	755697	Ave		720806.468				6.8		10.0			
4,4'-DDE	644213 780746	629773 821285	685695	775354	Lin1	-1406867.7	810773.711							0.9990		0.9900
Dieldrin	692868 816564	676307 844542	731747	808667	Ave		761782.303				9.3		10.0			
Endrin	594083 701879	580716 728928	631867	701480	Ave		656492.170				9.5		10.0			
4,4'-DDD	405511 629312	458638 632678	496498	599858	Lin1	-1579529.9	635803.139							0.9980		0.9900
Endosulfan II	648778 632315	581020 671358	636585	692200	Ave		643709.165				5.9		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 149897

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 14:02 Calibration End Date: 10/03/2014 15:54 Calibration ID: 24534

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	466752 587721	448701 635238	499961	586643	Lin1	-1352143.7	622011.628							0.9970		0.9900
Endrin aldehyde	496141 521058	454750 529386	477161	540999	Ave		503249.248				6.6		10.0			
Endosulfan sulfate	544284 587513	515710 605347	540452	614032	Ave		567889.723				7.0		10.0			
Methoxychlor	239576 277367	248922 281024	262469	297542	Ave		267816.723				8.1		10.0			
Endrin ketone	654045 721899	632832 737076	674272	762044	Ave		697027.961				7.3		10.0			
Tetrachloro-m-xylene	587814 638211	566111 655636	600617	632377	Ave		613460.881				5.6		10.0			
DCB Decachlorobiphenyl	581253 508804	528324 507276	509139	557205	Ave		532000.113				5.8		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 149897

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 14:02 Calibration End Date: 10/03/2014 15:54 Calibration ID: 24534

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-149897/6	P3100106.D
Level 2	STD 240-149897/7	P3100107.D
Level 3	STD 240-149897/8	P3100108.D
Level 4	STD 240-149897/9	P3100109.D
Level 5	STD 240-149897/10	P3100110.D
Level 6	STD 240-149897/11	P3100111.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Lin1	4353186 239554643	8774353	25348600	55571294	114569037	5.00 200	10.0	25.0	50.0	100
gamma-BHC (Lindane)	Lin1	4054003 213107670	8032198	22617805	49477722	101536891	5.00 200	10.0	25.0	50.0	100
beta-BHC	Ave	2052040 83049088	3797371	9708897	20256931	40138583	5.00 200	10.0	25.0	50.0	100
delta-BHC	Lin1	3892320 216376729	7707847	22106392	49982402	102579645	5.00 200	10.0	25.0	50.0	100
Heptachlor	Ave	3896946 190579297	7453300	20268915	44687233	91868061	5.00 200	10.0	25.0	50.0	100
Aldrin	Ave	4028727 198277663	7767471	21383865	45948605	94667998	5.00 200	10.0	25.0	50.0	100
Heptachlor epoxide	Ave	3721725 168358544	7118639	19126072	40784425	82049128	5.00 200	10.0	25.0	50.0	100
gamma-Chlordane	Ave	3634172 177188084	6984704	19063868	41305251	84189169	5.00 200	10.0	25.0	50.0	100
alpha-Chlordane	Ave	3667945 171533150	6997359	18957303	40447405	81691919	5.00 200	10.0	25.0	50.0	100
Endosulfan I	Ave	3422098 154688385	6522816	17502129	37784829	75891394	5.00 200	10.0	25.0	50.0	100
4,4'-DDE	Lin1	3221066 164257078	6297730	17142379	38767724	78074564	5.00 200	10.0	25.0	50.0	100
Dieldrin	Ave	3464342 168908334	6763069	18293665	40433326	81656373	5.00 200	10.0	25.0	50.0	100
Endrin	Ave	2970417 145785670	5807160	15796671	35073978	70187887	5.00 200	10.0	25.0	50.0	100
4,4'-DDD	Lin1	2027554 126535511	4586384	12412439	29992924	62931233	5.00 200	10.0	25.0	50.0	100
Endosulfan II	Ave	3243888 134271566	5810200	15914617	34609987	63231514	5.00 200	10.0	25.0	50.0	100
4,4'-DDT	Lin1	2333758 127047608	4487014	12499015	29332147	58772131	5.00 200	10.0	25.0	50.0	100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 149897

SDG No.:

Instrument ID: A2HP3 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/03/2014 14:02 Calibration End Date: 10/03/2014 15:54 Calibration ID: 24534

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	2480705 105877263	4547504	11929019	27049961	52105779	5.00 200	10.0	25.0	50.0	100
Endosulfan sulfate	Ave	2721419 121069374	5157102	13511299	30701603	58751345	5.00 200	10.0	25.0	50.0	100
Methoxychlor	Ave	1197878 56204843	2489218	6561734	14877108	27736720	5.00 200	10.0	25.0	50.0	100
Endrin ketone	Ave	3270223 147415125	6328324	16856805	38102195	72189904	5.00 200	10.0	25.0	50.0	100
Tetrachloro-m-xylene	Ave	2939070 131127195	5661112	15015422	31618836	63821051	5.00 200	10.0	25.0	50.0	100
DCB Decachlorobiphenyl	Ave	2906263 101455197	5283242	12728474	27860238	50880417	5.00 200	10.0	25.0	50.0	100

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID (2): PEM 240-150213/3 Instrument ID (2): A2HP3

GC Column (2): CLP-1 ID: 0.53(mm) Date Analyzed (2): 10/06/2014 10:48

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	3.44	100.0
alpha-BHC	4.13	100.0
gamma-BHC (Lindane)	4.50	100.0
beta-BHC	4.63	100.0
4,4'-DDE	7.78	100.0
Endrin	8.72	100.0
4,4'-DDD	9.10	100.0
4,4'-DDT	9.62	100.0
Endrin aldehyde	9.99	100.0
Endrin ketone	11.12	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID (1): PEM 240-150213/3 Instrument ID (1): A2HP3

GC Column (1): CLP-2 ID: 0.53(mm) Date Analyzed (1): 10/06/2014 10:48

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	4.08	100.0
alpha-BHC	4.93	100.0
gamma-BHC (Lindane)	5.50	100.0
beta-BHC	5.69	100.0
4,4'-DDE	9.74	100.0
Endrin	10.41	100.0
4,4'-DDD	10.76	100.0
4,4'-DDT	11.25	100.0
Endrin aldehyde	11.36	100.0
Endrin ketone	12.54	100.0

FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: PEM 240-150213/3 Calibration Date: 10/06/2014 10:48

Instrument ID: A2HP3 Calib Start Date: 10/03/2014 14:02

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 10/03/2014 15:54

Lab File ID: P3100603.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	8.72	40400547	8.72	15	
Endrin aldehyde	9.99	894292			
Endrin ketone	11.12	2964338			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	9.62	74709375	1.93	15	
4,4'-DDD	9.10	1239039			
4,4'-DDE	7.78	228228			

FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: PEM 240-150213/3 Calibration Date: 10/06/2014 10:48

Instrument ID: A2HP3 Calib Start Date: 10/03/2014 14:02

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 10/03/2014 15:54

Lab File ID: P3100603.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.41	32574626	6.85	15	
Endrin aldehyde	11.36	455015			
Endrin ketone	12.54	1941623			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.25	59153919	1.69	15	
4,4'-DDD	10.76	769652			
4,4'-DDE	9.74	246149			

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/4 Calibration Date: 10/06/2014 11:10

Instrument ID: A2HP3 Calib Start Date: 07/31/2014 21:54

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/31/2014 23:20

Lab File ID: P3100604.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	33765	37478		1110	1000	11.0	15.0
Toxaphene Peak 2	Ave	31706	36504		1150	1000	15.1*	15.0
Toxaphene Peak 3	Ave	21507	21682		1010	1000	0.8	15.0
Toxaphene Peak 4	Ave	29789	31511		1060	1000	5.8	15.0
Toxaphene Peak 5	Ave	30092	31339		1040	1000	4.1	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/4 Calibration Date: 10/06/2014 11:10

Instrument ID: A2HP3 Calib Start Date: 07/31/2014 21:54

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/31/2014 23:20

Lab File ID: P3100604.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.39	9.36	9.42
Toxaphene Peak 2	9.86	9.83	9.89
Toxaphene Peak 3	10.17	10.14	10.20
Toxaphene Peak 4	10.52	10.49	10.55
Toxaphene Peak 5	10.63	10.60	10.66

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/4 Calibration Date: 10/06/2014 11:10

Instrument ID: A2HP3 Calib Start Date: 07/31/2014 21:54

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/31/2014 23:20

Lab File ID: P3100604.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	30792	31524		1020	1000	2.4	15.0
Toxaphene Peak 2	Ave	30360	33183		1090	1000	9.3	15.0
Toxaphene Peak 3	Ave	21615	24901		1150	1000	15.2*	15.0
Toxaphene Peak 4	Lin1		33539		1120	1000	12.1	15.0
Toxaphene Peak 5	Lin1		10234		1030	1000	3.0	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/4 Calibration Date: 10/06/2014 11:10

Instrument ID: A2HP3 Calib Start Date: 07/31/2014 21:54

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/31/2014 23:20

Lab File ID: P3100604.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.76	10.73	10.79
Toxaphene Peak 2	10.94	10.91	10.97
Toxaphene Peak 3	11.37	11.34	11.40
Toxaphene Peak 4	12.11	12.08	12.14
Toxaphene Peak 5	12.20	12.17	12.23

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/5 Calibration Date: 10/06/2014 11:32

Instrument ID: A2HP3 Calib Start Date: 08/01/2014 00:04

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 08/01/2014 01:30

Lab File ID: P3100605.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	39828	38238		96.0	100	-4.0	15.0
Chlordane (technical) Peak 2	Ave	47269	42916		90.8	100	-9.2	15.0
Chlordane (technical) Peak 3	Ave	157928	149373		94.6	100	-5.4	15.0
Chlordane (technical) Peak 4	Ave	246318	235478		95.6	100	-4.4	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/5 Calibration Date: 10/06/2014 11:32

Instrument ID: A2HP3 Calib Start Date: 08/01/2014 00:04

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 08/01/2014 01:30

Lab File ID: P3100605.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	5.00	4.97	5.03
Chlordane (technical) Peak 2	5.84	5.81	5.87
Chlordane (technical) Peak 3	7.04	7.01	7.07
Chlordane (technical) Peak 4	7.38	7.35	7.41

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/5 Calibration Date: 10/06/2014 11:32

Instrument ID: A2HP3 Calib Start Date: 08/01/2014 00:04

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 08/01/2014 01:30

Lab File ID: P3100605.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	30332	32532		107	100	7.3	15.0
Chlordane (technical) Peak 2	Lin1		35466		110	100	10.3	15.0
Chlordane (technical) Peak 3	Ave	111725	113431		102	100	1.5	15.0
Chlordane (technical) Peak 4	Ave	100945	103621		103	100	2.7	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/5 Calibration Date: 10/06/2014 11:32

Instrument ID: A2HP3 Calib Start Date: 08/01/2014 00:04

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 08/01/2014 01:30

Lab File ID: P3100605.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	6.03	6.00	6.06
Chlordane (technical) Peak 2	7.57	7.54	7.60
Chlordane (technical) Peak 3	8.98	8.95	9.01
Chlordane (technical) Peak 4	9.29	9.26	9.32

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/6 Calibration Date: 10/06/2014 11:55

Instrument ID: A2HP3 Calib Start Date: 10/03/2014 14:02

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 10/03/2014 15:54

Lab File ID: P3100606.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		1340338		26.0	25.0	4.0	15.0
gamma-BHC (Lindane)	Lin1		1192765		26.1	25.0	4.3	15.0
beta-BHC	Ave	456091	483904		26.5	25.0	6.1	15.0
delta-BHC	Lin1		1185786		25.9	25.0	3.8	15.0
Heptachlor	Ave	1048470	1162746		27.7	25.0	10.9	15.0
Aldrin	Ave	1098268	1173214		26.7	25.0	6.8	15.0
Heptachlor epoxide	Ave	973832	1057577		27.1	25.0	8.6	15.0
gamma-Chlordane	Ave	1011974	1081785		26.7	25.0	6.9	15.0
alpha-Chlordane	Ave	1006176	1078819		26.8	25.0	7.2	15.0
Endosulfan I	Ave	915953	998573		27.3	25.0	9.0	15.0
4,4'-DDE	Lin1		964910		25.8	25.0	3.0	15.0
Dieldrin	Ave	976596	1057214		27.1	25.0	8.3	15.0
Endrin	Ave	835821	895794		26.8	25.0	7.2	15.0
4,4'-DDD	Lin1		712887		25.0	25.0	0.0	15.0
Endosulfan II	Ave	821002	890588		27.1	25.0	8.5	15.0
4,4'-DDT	Lin1		744973		25.1	25.0	0.6	15.0
Endrin aldehyde	Ave	661767	700379		26.5	25.0	5.8	15.0
Methoxychlor	Ave	362887	384065		26.5	25.0	5.8	15.0
Endosulfan sulfate	Ave	741754	800863		27.0	25.0	8.0	15.0
Endrin ketone	Ave	894591	972575		27.2	25.0	8.7	15.0
Tetrachloro-m-xylene	Ave	722341	753833		26.1	25.0	4.4	15.0
DCB Decachlorobiphenyl	Ave	718213	739216		25.7	25.0	2.9	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/6 Calibration Date: 10/06/2014 11:55

Instrument ID: A2HP3 Calib Start Date: 10/03/2014 14:02

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 10/03/2014 15:54

Lab File ID: P3100606.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.13	4.10	4.16
gamma-BHC (Lindane)	4.50	4.47	4.53
beta-BHC	4.64	4.61	4.67
delta-BHC	4.84	4.81	4.87
Heptachlor	5.12	5.09	5.15
Aldrin	5.56	5.53	5.59
Heptachlor epoxide	6.76	6.73	6.79
gamma-Chlordane	7.05	7.02	7.08
alpha-Chlordane	7.40	7.37	7.43
Endosulfan I	7.69	7.66	7.72
4,4'-DDE	7.79	7.76	7.82
Dieldrin	8.26	8.23	8.29
Endrin	8.73	8.70	8.76
4,4'-DDD	9.10	9.07	9.13
Endosulfan II	9.18	9.15	9.21
4,4'-DDT	9.62	9.59	9.65
Endrin aldehyde	9.99	9.96	10.02
Methoxychlor	10.59	10.56	10.62
Endosulfan sulfate	10.72	10.69	10.75
Endrin ketone	11.13	11.10	11.16
Tetrachloro-m-xylene	3.44	3.41	3.47
DCB Decachlorobiphenyl	12.75	12.72	12.78

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/6 Calibration Date: 10/06/2014 11:55

Instrument ID: A2HP3 Calib Start Date: 10/03/2014 14:02

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 10/03/2014 15:54

Lab File ID: P3100606.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		1118256		25.6	25.0	2.4	15.0
gamma-BHC (Lindane)	Lin1		1003831		25.7	25.0	2.7	15.0
beta-BHC	Ave	400045	426705		26.7	25.0	6.7	15.0
delta-BHC	Lin1		985363		25.2	25.0	0.9	15.0
Heptachlor	Ave	850133	940396		27.7	25.0	10.6	15.0
Aldrin	Ave	882481	939284		26.6	25.0	6.4	15.0
Heptachlor epoxide	Ave	783204	854025		27.3	25.0	9.0	15.0
gamma-Chlordane	Ave	790299	848100		26.8	25.0	7.3	15.0
alpha-Chlordane	Ave	779192	839617		26.9	25.0	7.8	15.0
Endosulfan I	Ave	720806	789133		27.4	25.0	9.5	15.0
4,4'-DDE	Lin1		778914		25.8	25.0	3.0	15.0
Dieldrin	Ave	761782	821388		27.0	25.0	7.8	15.0
Endrin	Ave	656492	717066		27.3	25.0	9.2	15.0
4,4'-DDD	Lin1		546647		24.0	25.0	-4.1	15.0
Endosulfan II	Ave	643709	740941		28.8	25.0	15.1*	15.0
4,4'-DDT	Lin1		583375		25.6	25.0	2.5	15.0
Endrin aldehyde	Ave	503249	540143		26.8	25.0	7.3	15.0
Endosulfan sulfate	Ave	567890	615140		27.1	25.0	8.3	15.0
Methoxychlor	Ave	267817	307011		28.7	25.0	14.6	15.0
Endrin ketone	Ave	697028	747128		26.8	25.0	7.2	15.0
Tetrachloro-m-xylene	Ave	613461	641366		26.1	25.0	4.5	15.0
DCB Decachlorobiphenyl	Ave	532000	556162		26.1	25.0	4.5	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/6 Calibration Date: 10/06/2014 11:55

Instrument ID: A2HP3 Calib Start Date: 10/03/2014 14:02

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 10/03/2014 15:54

Lab File ID: P3100606.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.93	4.90	4.96
gamma-BHC (Lindane)	5.50	5.47	5.53
beta-BHC	5.69	5.66	5.72
delta-BHC	6.26	6.23	6.29
Heptachlor	6.33	6.30	6.36
Aldrin	7.06	7.03	7.09
Heptachlor epoxide	8.57	8.54	8.60
gamma-Chlordane	8.98	8.95	9.01
alpha-Chlordane	9.29	9.26	9.32
Endosulfan I	9.36	9.33	9.39
4,4'-DDE	9.74	9.71	9.77
Dieldrin	9.89	9.86	9.92
Endrin	10.41	10.38	10.44
4,4'-DDD	10.77	10.74	10.80
Endosulfan II	10.79	10.76	10.82
4,4'-DDT	11.25	11.22	11.28
Endrin aldehyde	11.36	11.33	11.39
Endosulfan sulfate	11.79	11.76	11.82
Methoxychlor	12.34	12.31	12.37
Endrin ketone	12.54	12.51	12.57
Tetrachloro-m-xylene	4.08	4.05	4.11
DCB Decachlorobiphenyl	14.27	14.24	14.30

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/11 Calibration Date: 10/06/2014 13:48

Instrument ID: A2HP3 Calib Start Date: 07/31/2014 21:54

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/31/2014 23:20

Lab File ID: P3100611.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	33765	37880		1120	1000	12.2	15.0
Toxaphene Peak 2	Ave	31706	37178		1170	1000	17.3*	15.0
Toxaphene Peak 3	Ave	21507	22214		1030	1000	3.3	15.0
Toxaphene Peak 4	Ave	29789	31463		1060	1000	5.6	15.0
Toxaphene Peak 5	Ave	30092	31159		1040	1000	3.5	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/11 Calibration Date: 10/06/2014 13:48

Instrument ID: A2HP3 Calib Start Date: 07/31/2014 21:54

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/31/2014 23:20

Lab File ID: P3100611.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.39	9.36	9.42
Toxaphene Peak 2	9.86	9.83	9.89
Toxaphene Peak 3	10.18	10.15	10.21
Toxaphene Peak 4	10.52	10.49	10.55
Toxaphene Peak 5	10.63	10.60	10.66

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/11 Calibration Date: 10/06/2014 13:48

Instrument ID: A2HP3 Calib Start Date: 07/31/2014 21:54

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/31/2014 23:20

Lab File ID: P3100611.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	30792	37000		1200	1000	20.2*	15.0
Toxaphene Peak 2	Ave	30360	36578		1200	1000	20.5*	15.0
Toxaphene Peak 3	Ave	21615	26715		1240	1000	23.6*	15.0
Toxaphene Peak 4	Lin1		34100		1140	1000	13.9	15.0
Toxaphene Peak 5	Lin1		10379		1040	1000	4.3	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/11 Calibration Date: 10/06/2014 13:48

Instrument ID: A2HP3 Calib Start Date: 07/31/2014 21:54

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/31/2014 23:20

Lab File ID: P3100611.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.77	10.74	10.80
Toxaphene Peak 2	10.94	10.91	10.97
Toxaphene Peak 3	11.37	11.34	11.40
Toxaphene Peak 4	12.11	12.08	12.14
Toxaphene Peak 5	12.21	12.18	12.24

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/12 Calibration Date: 10/06/2014 14:12

Instrument ID: A2HP3 Calib Start Date: 08/01/2014 00:04

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 08/01/2014 01:30

Lab File ID: P3100612.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	39828	39442		99.0	100	-1.0	15.0
Chlordane (technical) Peak 2	Ave	47269	46481		98.3	100	-1.7	15.0
Chlordane (technical) Peak 3	Ave	157928	158732		101	100	0.5	15.0
Chlordane (technical) Peak 4	Ave	246318	250434		102	100	1.7	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/12 Calibration Date: 10/06/2014 14:12

Instrument ID: A2HP3 Calib Start Date: 08/01/2014 00:04

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 08/01/2014 01:30

Lab File ID: P3100612.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	5.01	4.98	5.04
Chlordane (technical) Peak 2	5.85	5.82	5.88
Chlordane (technical) Peak 3	7.06	7.03	7.09
Chlordane (technical) Peak 4	7.40	7.37	7.43

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/12 Calibration Date: 10/06/2014 14:12

Instrument ID: A2HP3 Calib Start Date: 08/01/2014 00:04

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 08/01/2014 01:30

Lab File ID: P3100612.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	30332	33975		112	100	12.0	15.0
Chlordane (technical) Peak 2	Lin1		39948		126	100	25.7*	15.0
Chlordane (technical) Peak 3	Ave	111725	122327		109	100	9.5	15.0
Chlordane (technical) Peak 4	Ave	100945	110130		109	100	9.1	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/12 Calibration Date: 10/06/2014 14:12

Instrument ID: A2HP3 Calib Start Date: 08/01/2014 00:04

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 08/01/2014 01:30

Lab File ID: P3100612.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	6.03	6.00	6.06
Chlordane (technical) Peak 2	7.58	7.55	7.61
Chlordane (technical) Peak 3	8.98	8.95	9.01
Chlordane (technical) Peak 4	9.29	9.26	9.32

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/13 Calibration Date: 10/06/2014 14:34

Instrument ID: A2HP3 Calib Start Date: 10/03/2014 14:02

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 10/03/2014 15:54

Lab File ID: P3100613.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		1403533		27.1	25.0	8.5	15.0
gamma-BHC (Lindane)	Lin1		1259993		27.5	25.0	9.8	15.0
beta-BHC	Ave	456091	519177		28.5	25.0	13.8	15.0
delta-BHC	Lin1		1274708		27.7	25.0	10.9	15.0
Heptachlor	Ave	1048470	1251632		29.8	25.0	19.4*	15.0
Aldrin	Ave	1098268	1227510		27.9	25.0	11.8	15.0
Heptachlor epoxide	Ave	973832	1121661		28.8	25.0	15.2*	15.0
gamma-Chlordane	Ave	1011974	1145680		28.3	25.0	13.2	15.0
alpha-Chlordane	Ave	1006176	1138508		28.3	25.0	13.2	15.0
Endosulfan I	Ave	915953	1068081		29.2	25.0	16.6*	15.0
4,4'-DDE	Lin1		1055826		28.0	25.0	12.0	15.0
Dieldrin	Ave	976596	1134570		29.0	25.0	16.2*	15.0
Endrin	Ave	835821	981452		29.4	25.0	17.4*	15.0
4,4'-DDD	Lin1		820712		28.5	25.0	13.9	15.0
Endosulfan II	Ave	821002	985139		30.0	25.0	20.0*	15.0
4,4'-DDT	Lin1		809871		27.2	25.0	8.6	15.0
Endrin aldehyde	Ave	661767	777559		29.4	25.0	17.5*	15.0
Methoxychlor	Ave	362887	431978		29.8	25.0	19.0*	15.0
Endosulfan sulfate	Ave	741754	887057		29.9	25.0	19.6*	15.0
Endrin ketone	Ave	894591	1068619		29.9	25.0	19.5*	15.0
Tetrachloro-m-xylene	Ave	722341	779672		27.0	25.0	7.9	15.0
DCB Decachlorobiphenyl	Ave	718213	788222		27.4	25.0	9.7	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/13 Calibration Date: 10/06/2014 14:34

Instrument ID: A2HP3 Calib Start Date: 10/03/2014 14:02

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 10/03/2014 15:54

Lab File ID: P3100613.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.13	4.10	4.16
gamma-BHC (Lindane)	4.50	4.47	4.53
beta-BHC	4.63	4.60	4.66
delta-BHC	4.84	4.81	4.87
Heptachlor	5.11	5.08	5.14
Aldrin	5.55	5.52	5.58
Heptachlor epoxide	6.75	6.72	6.78
gamma-Chlordane	7.04	7.01	7.07
alpha-Chlordane	7.39	7.36	7.42
Endosulfan I	7.68	7.65	7.71
4,4'-DDE	7.78	7.75	7.81
Dieldrin	8.25	8.22	8.28
Endrin	8.72	8.69	8.75
4,4'-DDD	9.09	9.06	9.12
Endosulfan II	9.18	9.15	9.21
4,4'-DDT	9.62	9.59	9.65
Endrin aldehyde	9.99	9.96	10.02
Methoxychlor	10.59	10.56	10.62
Endosulfan sulfate	10.72	10.69	10.75
Endrin ketone	11.12	11.09	11.15
Tetrachloro-m-xylene	3.44	3.41	3.47
DCB Decachlorobiphenyl	12.75	12.72	12.78

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/13 Calibration Date: 10/06/2014 14:34

Instrument ID: A2HP3 Calib Start Date: 10/03/2014 14:02

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 10/03/2014 15:54

Lab File ID: P3100613.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		1167516		26.6	25.0	6.5	15.0
gamma-BHC (Lindane)	Lin1		1053305		26.9	25.0	7.4	15.0
beta-BHC	Ave	400045	448241		28.0	25.0	12.0	15.0
delta-BHC	Lin1		1055496		26.9	25.0	7.5	15.0
Heptachlor	Ave	850133	1012484		29.8	25.0	19.1*	15.0
Aldrin	Ave	882481	978694		27.7	25.0	10.9	15.0
Heptachlor epoxide	Ave	783204	902517		28.8	25.0	15.2*	15.0
gamma-Chlordane	Ave	790299	896737		28.4	25.0	13.5	15.0
alpha-Chlordane	Ave	779192	882096		28.3	25.0	13.2	15.0
Endosulfan I	Ave	720806	839655		29.1	25.0	16.5*	15.0
4,4'-DDE	Lin1		837534		27.6	25.0	10.2	15.0
Dieldrin	Ave	761782	877538		28.8	25.0	15.2*	15.0
Endrin	Ave	656492	781917		29.8	25.0	19.1*	15.0
4,4'-DDD	Lin1		657023		28.3	25.0	13.3	15.0
Endosulfan II	Ave	643709	756873		29.4	25.0	17.6*	15.0
4,4'-DDT	Lin1		639272		27.9	25.0	11.5	15.0
Endrin aldehyde	Ave	503249	593240		29.5	25.0	17.9*	15.0
Endosulfan sulfate	Ave	567890	672312		29.6	25.0	18.4*	15.0
Methoxychlor	Ave	267817	334624		31.2	25.0	24.9*	15.0
Endrin ketone	Ave	697028	808892		29.0	25.0	16.0*	15.0
Tetrachloro-m-xylene	Ave	613461	659034		26.9	25.0	7.4	15.0
DCB Decachlorobiphenyl	Ave	532000	605041		28.4	25.0	13.7	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150213/13 Calibration Date: 10/06/2014 14:34

Instrument ID: A2HP3 Calib Start Date: 10/03/2014 14:02

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 10/03/2014 15:54

Lab File ID: P3100613.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.93	4.90	4.96
gamma-BHC (Lindane)	5.50	5.47	5.53
beta-BHC	5.69	5.66	5.72
delta-BHC	6.26	6.23	6.29
Heptachlor	6.33	6.30	6.36
Aldrin	7.06	7.03	7.09
Heptachlor epoxide	8.57	8.54	8.60
gamma-Chlordane	8.98	8.95	9.01
alpha-Chlordane	9.29	9.26	9.32
Endosulfan I	9.36	9.33	9.39
4,4'-DDE	9.74	9.71	9.77
Dieldrin	9.89	9.86	9.92
Endrin	10.41	10.38	10.44
4,4'-DDD	10.76	10.73	10.79
Endosulfan II	10.79	10.76	10.82
4,4'-DDT	11.25	11.22	11.28
Endrin aldehyde	11.36	11.33	11.39
Endosulfan sulfate	11.79	11.76	11.82
Methoxychlor	12.33	12.30	12.36
Endrin ketone	12.53	12.50	12.56
Tetrachloro-m-xylene	4.08	4.05	4.11
DCB Decachlorobiphenyl	14.27	14.24	14.30

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Start Date: 07/31/2014 17:34

Analysis Batch Number: 140995 End Date: 08/01/2014 18:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 240-140995/7 IC		07/31/2014 17:34	1		CLP-1 0.53(mm)
STD 240-140995/7 IC		07/31/2014 17:34	1		CLP-2 0.53(mm)
STD 240-140995/8 IC		07/31/2014 17:55	1		CLP-1 0.53(mm)
STD 240-140995/8 IC		07/31/2014 17:55	1		CLP-2 0.53(mm)
STD 240-140995/9 ICRT		07/31/2014 18:17	1		CLP-1 0.53(mm)
STD 240-140995/9 ICRT		07/31/2014 18:17	1		CLP-2 0.53(mm)
STD 240-140995/10 IC		07/31/2014 18:39	1		CLP-1 0.53(mm)
STD 240-140995/10 IC		07/31/2014 18:39	1		CLP-2 0.53(mm)
STD 240-140995/11 IC		07/31/2014 19:00	1		CLP-1 0.53(mm)
STD 240-140995/11 IC		07/31/2014 19:00	1		CLP-2 0.53(mm)
STD 240-140995/12 IC		07/31/2014 19:22	1		CLP-1 0.53(mm)
STD 240-140995/12 IC		07/31/2014 19:22	1		CLP-2 0.53(mm)
STD 240-140995/13 IC		07/31/2014 19:44	1		CLP-1 0.53(mm)
STD 240-140995/13 IC		07/31/2014 19:44	1		CLP-2 0.53(mm)
STD 240-140995/14 ICRT		07/31/2014 20:05	1		CLP-1 0.53(mm)
STD 240-140995/14 ICRT		07/31/2014 20:05	1		CLP-2 0.53(mm)
STD 240-140995/15 IC		07/31/2014 20:27	1		CLP-1 0.53(mm)
STD 240-140995/15 IC		07/31/2014 20:27	1		CLP-2 0.53(mm)
STD 240-140995/16 IC		07/31/2014 20:49	1		CLP-1 0.53(mm)
STD 240-140995/16 IC		07/31/2014 20:49	1		CLP-2 0.53(mm)
STD 240-140995/17 IC		07/31/2014 21:10	1		CLP-1 0.53(mm)
STD 240-140995/17 IC		07/31/2014 21:10	1		CLP-2 0.53(mm)
ICV 240-140995/18		07/31/2014 21:32	1		CLP-1 0.53(mm)
ICV 240-140995/18		07/31/2014 21:32	1		CLP-2 0.53(mm)
STD 240-140995/19 IC		07/31/2014 21:54	1	P3073119.D	CLP-1 0.53(mm)
STD 240-140995/19 IC		07/31/2014 21:54	1	P3073119.D	CLP-2 0.53(mm)
STD 240-140995/20 IC		07/31/2014 22:15	1	P3073120.D	CLP-1 0.53(mm)
STD 240-140995/20 IC		07/31/2014 22:15	1	P3073120.D	CLP-2 0.53(mm)
STD 240-140995/21 ICRT		07/31/2014 22:37	1	P3073121.D	CLP-1 0.53(mm)
STD 240-140995/21 ICRT		07/31/2014 22:37	1	P3073121.D	CLP-2 0.53(mm)
STD 240-140995/22 IC		07/31/2014 22:59	1	P3073122.D	CLP-1 0.53(mm)
STD 240-140995/22 IC		07/31/2014 22:59	1	P3073122.D	CLP-2 0.53(mm)
STD 240-140995/23 IC		07/31/2014 23:20	1	P3073123.D	CLP-1 0.53(mm)
STD 240-140995/23 IC		07/31/2014 23:20	1	P3073123.D	CLP-2 0.53(mm)
ICV 240-140995/24		07/31/2014 23:42	1		CLP-1 0.53(mm)
ICV 240-140995/24		07/31/2014 23:42	1		CLP-2 0.53(mm)
STD 240-140995/25 IC		08/01/2014 00:04	1	P3073125.D	CLP-1 0.53(mm)
STD 240-140995/25 IC		08/01/2014 00:04	1	P3073125.D	CLP-2 0.53(mm)
STD 240-140995/26 IC		08/01/2014 00:25	1	P3073126.D	CLP-1 0.53(mm)
STD 240-140995/26 IC		08/01/2014 00:25	1	P3073126.D	CLP-2 0.53(mm)
STD 240-140995/27 ICRT		08/01/2014 00:47	1	P3073127.D	CLP-1 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Start Date: 07/31/2014 17:34

Analysis Batch Number: 140995 End Date: 08/01/2014 18:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 240-140995/27 ICRT		08/01/2014 00:47	1	P3073127.D	CLP-2 0.53(mm)
STD 240-140995/28 IC		08/01/2014 01:09	1	P3073128.D	CLP-1 0.53(mm)
STD 240-140995/28 IC		08/01/2014 01:09	1	P3073128.D	CLP-2 0.53(mm)
STD 240-140995/29 IC		08/01/2014 01:30	1	P3073129.D	CLP-1 0.53(mm)
STD 240-140995/29 IC		08/01/2014 01:30	1	P3073129.D	CLP-2 0.53(mm)
ICV 240-140995/30		08/01/2014 01:52	1		CLP-1 0.53(mm)
ICV 240-140995/30		08/01/2014 01:52	1		CLP-2 0.53(mm)
PEM 240-140995/31		08/01/2014 02:14	1		CLP-1 0.53(mm)
PEM 240-140995/31		08/01/2014 02:14	1		CLP-2 0.53(mm)
STD 240-140995/32 IC		08/01/2014 02:35	1		CLP-1 0.53(mm)
STD 240-140995/32 IC		08/01/2014 02:35	1		CLP-2 0.53(mm)
STD 240-140995/33 IC		08/01/2014 02:57	1		CLP-1 0.53(mm)
STD 240-140995/33 IC		08/01/2014 02:57	1		CLP-2 0.53(mm)
STD 240-140995/34 ICRT		08/01/2014 03:19	1		CLP-1 0.53(mm)
STD 240-140995/34 ICRT		08/01/2014 03:19	1		CLP-2 0.53(mm)
STD 240-140995/35 IC		08/01/2014 03:40	1		CLP-1 0.53(mm)
STD 240-140995/35 IC		08/01/2014 03:40	1		CLP-2 0.53(mm)
STD 240-140995/36 IC		08/01/2014 04:02	1		CLP-1 0.53(mm)
STD 240-140995/36 IC		08/01/2014 04:02	1		CLP-2 0.53(mm)
STD 240-140995/37 IC		08/01/2014 04:24	1		CLP-1 0.53(mm)
STD 240-140995/37 IC		08/01/2014 04:24	1		CLP-2 0.53(mm)
ICV 240-140995/38		08/01/2014 04:45	1		CLP-1 0.53(mm)
ICV 240-140995/38		08/01/2014 04:45	1		CLP-2 0.53(mm)
ZZZZZ		08/01/2014 05:07	20		CLP-1 0.53(mm)
ZZZZZ		08/01/2014 05:07	20		CLP-2 0.53(mm)
ZZZZZ		08/01/2014 05:29	1		CLP-1 0.53(mm)
ZZZZZ		08/01/2014 05:29	1		CLP-2 0.53(mm)
ZZZZZ		08/01/2014 05:50	1		CLP-1 0.53(mm)
ZZZZZ		08/01/2014 05:50	1		CLP-2 0.53(mm)
ZZZZZ		08/01/2014 06:12	1		CLP-1 0.53(mm)
ZZZZZ		08/01/2014 06:12	1		CLP-2 0.53(mm)
ZZZZZ		08/01/2014 06:34	1		CLP-1 0.53(mm)
ZZZZZ		08/01/2014 06:34	1		CLP-2 0.53(mm)
ZZZZZ		08/01/2014 06:55	1		CLP-1 0.53(mm)
ZZZZZ		08/01/2014 06:55	1		CLP-2 0.53(mm)
CCV 240-140995/45		08/01/2014 07:17	1		CLP-1 0.53(mm)
CCV 240-140995/45		08/01/2014 07:17	1		CLP-2 0.53(mm)
CCV 240-140995/46		08/01/2014 07:39	1		CLP-1 0.53(mm)
CCV 240-140995/46		08/01/2014 07:39	1		CLP-2 0.53(mm)
CCV 240-140995/47		08/01/2014 08:00	1		CLP-1 0.53(mm)
CCV 240-140995/47		08/01/2014 08:00	1		CLP-2 0.53(mm)
CCV 240-140995/48		08/01/2014 08:22	1		CLP-1 0.53(mm)
CCV 240-140995/48		08/01/2014 08:22	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Start Date: 07/31/2014 17:34

Analysis Batch Number: 140995 End Date: 08/01/2014 18:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-140995/58		08/01/2014 11:59	1		CLP-1 0.53(mm)
PEM 240-140995/58		08/01/2014 11:59	1		CLP-2 0.53(mm)
CCV 240-140995/66		08/01/2014 14:52	1		CLP-1 0.53(mm)
CCV 240-140995/66		08/01/2014 14:52	1		CLP-2 0.53(mm)
CCV 240-140995/67		08/01/2014 15:14	1		CLP-1 0.53(mm)
CCV 240-140995/67		08/01/2014 15:14	1		CLP-2 0.53(mm)
CCV 240-140995/68		08/01/2014 15:36	1		CLP-1 0.53(mm)
CCV 240-140995/68		08/01/2014 15:36	1		CLP-2 0.53(mm)
ZZZZZ		08/01/2014 16:19	50		CLP-1 0.53(mm)
ZZZZZ		08/01/2014 16:19	50		CLP-2 0.53(mm)
ZZZZZ		08/01/2014 16:41	1		CLP-1 0.53(mm)
ZZZZZ		08/01/2014 16:41	1		CLP-2 0.53(mm)
ZZZZZ		08/01/2014 17:02	1		CLP-1 0.53(mm)
ZZZZZ		08/01/2014 17:02	1		CLP-2 0.53(mm)
CCV 240-140995/73		08/01/2014 17:24	1		CLP-1 0.53(mm)
CCV 240-140995/73		08/01/2014 17:24	1		CLP-2 0.53(mm)
CCV 240-140995/74		08/01/2014 17:46	1		CLP-1 0.53(mm)
CCV 240-140995/74		08/01/2014 17:46	1		CLP-2 0.53(mm)
CCV 240-140995/75		08/01/2014 18:08	1		CLP-1 0.53(mm)
CCV 240-140995/75		08/01/2014 18:08	1		CLP-2 0.53(mm)
CCV 240-140995/76		08/01/2014 18:30	1		CLP-1 0.53(mm)
CCV 240-140995/76		08/01/2014 18:30	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Start Date: 10/03/2014 12:53

Analysis Batch Number: 149897 End Date: 10/03/2014 23:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-149897/3		10/03/2014 12:53	1		CLP-1 0.53(mm)
PEM 240-149897/3		10/03/2014 12:53	1		CLP-2 0.53(mm)
CCV 240-149897/4 CCVRT		10/03/2014 13:16	1		CLP-1 0.53(mm)
CCV 240-149897/4 CCVRT		10/03/2014 13:16	1		CLP-2 0.53(mm)
CCV 240-149897/5 CCVRT		10/03/2014 13:39	1		CLP-1 0.53(mm)
CCV 240-149897/5 CCVRT		10/03/2014 13:39	1		CLP-2 0.53(mm)
STD 240-149897/6 IC		10/03/2014 14:02	1	P3100106.D	CLP-1 0.53(mm)
STD 240-149897/6 IC		10/03/2014 14:02	1	P3100106.D	CLP-2 0.53(mm)
STD 240-149897/7 IC		10/03/2014 14:24	1	P3100107.D	CLP-1 0.53(mm)
STD 240-149897/7 IC		10/03/2014 14:24	1	P3100107.D	CLP-2 0.53(mm)
STD 240-149897/8 ICRT		10/03/2014 14:47	1	P3100108.D	CLP-1 0.53(mm)
STD 240-149897/8 ICRT		10/03/2014 14:47	1	P3100108.D	CLP-2 0.53(mm)
STD 240-149897/9 IC		10/03/2014 15:09	1	P3100109.D	CLP-1 0.53(mm)
STD 240-149897/9 IC		10/03/2014 15:09	1	P3100109.D	CLP-2 0.53(mm)
STD 240-149897/10 IC		10/03/2014 15:30	1	P3100110.D	CLP-1 0.53(mm)
STD 240-149897/10 IC		10/03/2014 15:30	1	P3100110.D	CLP-2 0.53(mm)
STD 240-149897/11 IC		10/03/2014 15:54	1	P3100111.D	CLP-1 0.53(mm)
STD 240-149897/11 IC		10/03/2014 15:54	1	P3100111.D	CLP-2 0.53(mm)
ICV 240-149897/12		10/03/2014 16:16	1		CLP-1 0.53(mm)
ICV 240-149897/12		10/03/2014 16:16	1		CLP-2 0.53(mm)
ZZZZZ		10/03/2014 16:38	1		CLP-1 0.53(mm)
ZZZZZ		10/03/2014 16:38	1		CLP-2 0.53(mm)
ZZZZZ		10/03/2014 16:59	20		CLP-1 0.53(mm)
ZZZZZ		10/03/2014 16:59	20		CLP-2 0.53(mm)
ZZZZZ		10/03/2014 17:21	100		CLP-1 0.53(mm)
ZZZZZ		10/03/2014 17:21	100		CLP-2 0.53(mm)
ZZZZZ		10/03/2014 17:43	100		CLP-1 0.53(mm)
ZZZZZ		10/03/2014 17:43	100		CLP-2 0.53(mm)
ZZZZZ		10/03/2014 18:05	20		CLP-1 0.53(mm)
ZZZZZ		10/03/2014 18:05	20		CLP-2 0.53(mm)
ZZZZZ		10/03/2014 18:28	1		CLP-1 0.53(mm)
ZZZZZ		10/03/2014 18:28	1		CLP-2 0.53(mm)
ZZZZZ		10/03/2014 18:51	1		CLP-1 0.53(mm)
ZZZZZ		10/03/2014 18:51	1		CLP-2 0.53(mm)
CCV 240-149897/20		10/03/2014 19:13	1		CLP-1 0.53(mm)
CCV 240-149897/20		10/03/2014 19:13	1		CLP-2 0.53(mm)
CCV 240-149897/29		10/03/2014 22:32	1		CLP-1 0.53(mm)
CCV 240-149897/29		10/03/2014 22:32	1		CLP-2 0.53(mm)
CCV 240-149897/30		10/03/2014 22:54	1		CLP-1 0.53(mm)
CCV 240-149897/30		10/03/2014 22:54	1		CLP-2 0.53(mm)
CCV 240-149897/31		10/03/2014 23:15	1		CLP-1 0.53(mm)
CCV 240-149897/31		10/03/2014 23:15	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Start Date: 10/06/2014 10:48

Analysis Batch Number: 150213 End Date: 10/06/2014 20:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-150213/3		10/06/2014 10:48	1	P3100603.D	CLP-1 0.53(mm)
PEM 240-150213/3		10/06/2014 10:48	1	P3100603.D	CLP-2 0.53(mm)
CCV 240-150213/4 CCVRT		10/06/2014 11:10	1	P3100604.D	CLP-1 0.53(mm)
CCV 240-150213/4 CCVRT		10/06/2014 11:10	1	P3100604.D	CLP-2 0.53(mm)
CCV 240-150213/5 CCVRT		10/06/2014 11:32	1	P3100605.D	CLP-1 0.53(mm)
CCV 240-150213/5 CCVRT		10/06/2014 11:32	1	P3100605.D	CLP-2 0.53(mm)
CCV 240-150213/6 CCVRT		10/06/2014 11:55	1	P3100606.D	CLP-1 0.53(mm)
CCV 240-150213/6 CCVRT		10/06/2014 11:55	1	P3100606.D	CLP-2 0.53(mm)
240-42475-2	DSP-1-092914 COMP	10/06/2014 12:17	1	P3100607.D	CLP-1 0.53(mm)
240-42475-2	DSP-1-092914 COMP	10/06/2014 12:17	1	P3100607.D	CLP-2 0.53(mm)
CCV 240-150213/11		10/06/2014 13:48	1	P3100611.D	CLP-1 0.53(mm)
CCV 240-150213/11		10/06/2014 13:48	1	P3100611.D	CLP-2 0.53(mm)
CCV 240-150213/12		10/06/2014 14:12	1	P3100612.D	CLP-1 0.53(mm)
CCV 240-150213/12		10/06/2014 14:12	1	P3100612.D	CLP-2 0.53(mm)
CCV 240-150213/13		10/06/2014 14:34	1	P3100613.D	CLP-1 0.53(mm)
CCV 240-150213/13		10/06/2014 14:34	1	P3100613.D	CLP-2 0.53(mm)
ZZZZZ		10/06/2014 14:57	1		CLP-1 0.53(mm)
ZZZZZ		10/06/2014 14:57	1		CLP-2 0.53(mm)
ZZZZZ		10/06/2014 15:20	5		CLP-1 0.53(mm)
ZZZZZ		10/06/2014 15:20	5		CLP-2 0.53(mm)
ZZZZZ		10/06/2014 15:43	2		CLP-1 0.53(mm)
ZZZZZ		10/06/2014 15:43	2		CLP-2 0.53(mm)
ZZZZZ		10/06/2014 16:04	1		CLP-1 0.53(mm)
ZZZZZ		10/06/2014 16:04	1		CLP-2 0.53(mm)
ZZZZZ		10/06/2014 16:26	1		CLP-1 0.53(mm)
ZZZZZ		10/06/2014 16:26	1		CLP-2 0.53(mm)
CCV 240-150213/19		10/06/2014 16:50	1		CLP-1 0.53(mm)
CCV 240-150213/19		10/06/2014 16:50	1		CLP-2 0.53(mm)
CCV 240-150213/20		10/06/2014 17:13	1		CLP-1 0.53(mm)
CCV 240-150213/20		10/06/2014 17:13	1		CLP-2 0.53(mm)
CCV 240-150213/21		10/06/2014 17:35	1		CLP-1 0.53(mm)
CCV 240-150213/21		10/06/2014 17:35	1		CLP-2 0.53(mm)
ZZZZZ		10/06/2014 17:59	1		CLP-1 0.53(mm)
ZZZZZ		10/06/2014 17:59	1		CLP-2 0.53(mm)
ZZZZZ		10/06/2014 18:23	1		CLP-1 0.53(mm)
ZZZZZ		10/06/2014 18:23	1		CLP-2 0.53(mm)
ZZZZZ		10/06/2014 18:46	10		CLP-1 0.53(mm)
ZZZZZ		10/06/2014 18:46	10		CLP-2 0.53(mm)
ZZZZZ		10/06/2014 19:10	1		CLP-1 0.53(mm)
ZZZZZ		10/06/2014 19:10	1		CLP-2 0.53(mm)
ZZZZZ		10/06/2014 19:33	1		CLP-1 0.53(mm)
ZZZZZ		10/06/2014 19:33	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP3 Start Date: 10/06/2014 10:48

Analysis Batch Number: 150213 End Date: 10/06/2014 20:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-150213/27		10/06/2014 19:56	1		CLP-1 0.53(mm)
CCV 240-150213/27		10/06/2014 19:56	1		CLP-2 0.53(mm)
CCV 240-150213/28		10/06/2014 20:20	1		CLP-1 0.53(mm)
CCV 240-150213/28		10/06/2014 20:20	1		CLP-2 0.53(mm)
CCV 240-150213/29		10/06/2014 20:41	1		CLP-1 0.53(mm)
CCV 240-150213/29		10/06/2014 20:41	1		CLP-2 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149492 Batch Start Date: 10/01/14 08:00 Batch Analyst: Earle, Steve

Batch Method: 608 Batch End Date: 10/02/14 08:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	EX2/.2SURRW 00042		
240-42475-G-2	DSP-1-092914 COMP	608, 608	T	6 SU	1030 mL	5 mL	1 mL		

Batch Notes	
Exchange Solvent Lot #	1573723
Na2SO4 Lot Number	1555593
Prep Solvent Lot #	1691135

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 608 PCBs

Polychlorinated Biphenyls (PCBs) (GC) by Method 608

FORM II
PESTICIDES/PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	DCB1 #
DSP-1-092914 COMP	240-42475-2	89	93
	MB 240-149713/4-A	82	95
	LCS 240-149713/5-A	88	86

	QC LIMITS
TCX = Tetrachloro-m-xylene	15-131
DCB = DCB Decachlorobiphenyl	10-114

Column to be used to flag recovery values

FORM II 608

FORM III
PESTICIDES/PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1100023.D

Lab ID: LCS 240-149713/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Aroclor-1016	5.00	5.09	102	50-114	
Aroclor-1260	5.00	4.91	98	8-127	

Column to be used to flag recovery and RPD values

FORM III 608

FORM IV
PESTICIDES/PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: MB 240-149713/4-A

Matrix: Water Date Extracted: 10/02/2014 08:01

Lab File ID:(1) P1100022.D Lab File ID:(2)

Date Analyzed:(1) 10/03/2014 23:34 Date Analyzed:(2)

Instrument ID:(1) A2HP11 Instrument ID:(2)

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
DSP-1-092914 COMP	240-42475-2	10/03/2014 23:20	
	LCS 240-149713/5-A	10/03/2014 23:48	

FORM VIII
PESTICIDES/PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: STD05 240-133461/35 Date Analyzed: 06/05/2014 20:05

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P1100035.D Heated Purge: (Y/N) N

Calibration ID: 22655

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				2.47	8.28	
UPPER LIMIT				2.52	8.33	
LOWER LIMIT				2.42	8.23	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD05 240-133461/35 ICRT		06/05/2014 20:05	P1100035.D	2.47	8.28	

Column used to flag values outside QC limits

FORM VIII
PESTICIDES/PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Sample No.: CCV 240-150074/3 Date Analyzed: 10/03/2014 22:38

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P1100018.D Heated Purge: (Y/N) N

Calibration ID: 22655

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				2.42	8.21	
UPPER LIMIT				2.47	8.26	
LOWER LIMIT				2.37	8.16	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-150074/3 CCVRT		10/03/2014 22:38	P1100018.D	2.42	8.21	
240-42475-2	DSP-1-092914 COMP	10/03/2014 23:20	P1100021.D	2.42	8.21	
MB 240-149713/4-A		10/03/2014 23:34	P1100022.D	2.42	8.21	
LCS 240-149713/5-A		10/03/2014 23:48	P1100023.D	2.42	8.21	
CCV 240-150074/9		10/04/2014 00:02	P1100024.D	2.42	8.21	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.05 minutes of surrogate RT
DCB RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 608

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-149713/5-A

Instrument ID (1): A2HP11 Instrument ID (2):

Date Analyzed (1): 10/03/2014 23:48 Date Analyzed (2):

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): ID:

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		
				FROM	TO	PEAK	MEAN	
Aroclor-1016	2	1	2.93	2.88	2.98	5.32	5.09	
		2	3.34	3.29	3.39	4.84		
		3	3.79	3.74	3.84	5.67		
		4	3.92	3.87	3.97	5.12		
		5	4.38	4.33	4.43	4.50		
Aroclor-1260	2	1	5.75	5.70	5.80	4.51	4.91	
		2	5.96	5.91	6.01	4.78		
		3	6.39	6.34	6.44	5.21		
		4	6.88	6.83	6.93	5.11		
		5	7.21	7.15	7.25	4.97		

FORM I
PESTICIDES/PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: DSP-1-092914 COMP | Lab Sample ID: 240-42475-2

Matrix: Water | Lab File ID: P1100021.D

Analysis Method: 608 | Date Collected: 09/29/2014 12:00

Extraction Method: 608 | Date Extracted: 10/02/2014 08:01

Sample wt/vol: 1010(mL) | Date Analyzed: 10/03/2014 23:20

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 150074 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor-1016	0.11	U	0.25	0.11
11104-28-2	Aroclor-1221	0.11	U	0.25	0.11
11141-16-5	Aroclor-1232	0.18	U	0.25	0.18
53469-21-9	Aroclor-1242	0.15	U	0.25	0.15
12672-29-6	Aroclor-1248	0.15	U	0.25	0.15
11097-69-1	Aroclor-1254	0.079	U	0.25	0.079
11096-82-5	Aroclor-1260	0.094	U	0.25	0.094

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	93		10-114
877-09-8	Tetrachloro-m-xylene	89		15-131

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 12:28 Calibration End Date: 06/05/2014 13:54 Calibration ID: 22631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/3	P1100003.D
Level 2	STD005 240-133461/4	P1100004.D
Level 3	STD01 240-133461/5	P1100005.D
Level 4	STD02 240-133461/6	P1100006.D
Level 5	STD05 240-133461/7	P1100007.D
Level 6	STD1 240-133461/8	P1100008.D
Level 7	STD2 240-133461/9	P1100009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1232 Peak 1	2.974	2.974	2.974	2.973	2.974	2.973	2.976				2.924 - 3.024	2.974
PCB-1232 Peak 2	3.384	3.386	3.385	3.384	3.384	3.384	3.386				3.334 - 3.434	3.385
PCB-1232 Peak 3	3.838	3.837	3.837	3.837	3.838	3.838	3.839				3.788 - 3.888	3.838
PCB-1232 Peak 4	3.971	3.971	3.971	3.971	3.971	3.971	3.972				3.921 - 4.021	3.971
PCB-1232 Peak 5	4.434	4.435	4.435	4.435	4.434	4.434	4.436				4.384 - 4.484	4.435

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 12:28 Calibration End Date: 06/05/2014 13:54 Calibration ID: 22631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/3	P1100003.D
Level 2	STD005 240-133461/4	P1100004.D
Level 3	STD01 240-133461/5	P1100005.D
Level 4	STD02 240-133461/6	P1100006.D
Level 5	STD05 240-133461/7	P1100007.D
Level 6	STD1 240-133461/8	P1100008.D
Level 7	STD2 240-133461/9	P1100009.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1232 Peak 1	26803360 21538464	24164440 20581470	24279930 19510012	22438975	Lin1	247654.304	19982255.5							0.9980		0.9900
PCB-1232 Peak 2	21348160 17352422	17754040 16063103	19294200 15145679	18011890	Lin1	197382.933	15639276.2							0.9970		0.9900
PCB-1232 Peak 3	39185520 34128606	36673920 32429580	37101840 31759300	34611200	Ave		35127138.0				7.6		10.0			
PCB-1232 Peak 4	16099440 14454608	15655260 13516004	15777020 12955740	14903795	Ave		14765981.0				8.1		10.0			
PCB-1232 Peak 5	10479120 10121060	10632000 9460382	10966690 8994892	10289055	Ave		10134742.7				6.8		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 12:28 Calibration End Date: 06/05/2014 13:54 Calibration ID: 22631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/3	P1100003.D
Level 2	STD005 240-133461/4	P1100004.D
Level 3	STD01 240-133461/5	P1100005.D
Level 4	STD02 240-133461/6	P1100006.D
Level 5	STD05 240-133461/7	P1100007.D
Level 6	STD1 240-133461/8	P1100008.D
Level 7	STD2 240-133461/9	P1100009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Lin1	670084 20581470	1208222 39020024	2427993	4487795	10769232	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1232 Peak 2	Lin1	533704 16063103	887702 30291358	1929420	3602378	8676211	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1232 Peak 3	Ave	979638 32429580	1833696 63518600	3710184	6922240	17064303	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1232 Peak 4	Ave	402486 13516004	782763 25911480	1577702	2980759	7227304	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1232 Peak 5	Ave	261978 9460382	531600 17989784	1096669	2057811	5060530	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 14:08 Calibration End Date: 06/05/2014 15:34 Calibration ID: 22637

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/10	P1100010.D
Level 2	STD005 240-133461/11	P1100011.D
Level 3	STD01 240-133461/12	P1100012.D
Level 4	STD02 240-133461/13	P1100013.D
Level 5	STD05 240-133461/14	P1100014.D
Level 6	STD1 240-133461/15	P1100015.D
Level 7	STD2 240-133461/16	P1100016.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1242 Peak 1	2.973	2.974	2.974	2.976	2.975	2.977	2.976				2.923 - 3.023	2.975
PCB-1242 Peak 2	3.386	3.384	3.386	3.387	3.387	3.387	3.387				3.336 - 3.436	3.386
PCB-1242 Peak 3	3.839	3.837	3.838	3.838	3.839	3.838	3.839				3.789 - 3.889	3.838
PCB-1242 Peak 4	3.972	3.972	3.973	3.973	3.973	3.972	3.972				3.922 - 4.022	3.972
PCB-1242 Peak 5	4.172	4.171	4.171	4.172	4.172	4.171	4.171				4.122 - 4.222	4.171

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 14:08 Calibration End Date: 06/05/2014 15:34 Calibration ID: 22637

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/10	P1100010.D
Level 2	STD005 240-133461/11	P1100011.D
Level 3	STD01 240-133461/12	P1100012.D
Level 4	STD02 240-133461/13	P1100013.D
Level 5	STD05 240-133461/14	P1100014.D
Level 6	STD1 240-133461/15	P1100015.D
Level 7	STD2 240-133461/16	P1100016.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1242 Peak 1	17059840 14992774	17490000 14380272	16920860 13917106	16234645	Ave		15856499.5				8.9		10.0			
PCB-1242 Peak 2	36403160 29172534	35891060 28542255	33667140 26658958	32503755	Lin1	393321.951	27423298.4							0.9970		0.9900
PCB-1242 Peak 3	68026880 61498596	69647800 62291826	67935860 60619450	65583735	Ave		65086306.6				5.6		10.0			
PCB-1242 Peak 4	28624120 25585528	27165440 25331904	29057640 24084731	27849580	Ave		26814134.6				6.9		10.0			
PCB-1242 Peak 5	15774760 12559004	15880240 12206231	14562490 11336538	13919560	Lin1	183449.374	11691149.5							0.9970		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 14:08 Calibration End Date: 06/05/2014 15:34 Calibration ID: 22637

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/10	P1100010.D
Level 2	STD005 240-133461/11	P1100011.D
Level 3	STD01 240-133461/12	P1100012.D
Level 4	STD02 240-133461/13	P1100013.D
Level 5	STD05 240-133461/14	P1100014.D
Level 6	STD1 240-133461/15	P1100015.D
Level 7	STD2 240-133461/16	P1100016.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Ave	426496 14380272	874500 27834211	1692086	3246929	7496387	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1242 Peak 2	Lin1	910079 28542255	1794553 53317916	3366714	6500751	14586267	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1242 Peak 3	Ave	1700672 62291826	3482390 121238899	6793586	13116747	30749298	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1242 Peak 4	Ave	715603 25331904	1358272 48169461	2905764	5569916	12792764	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1242 Peak 5	Lin1	394369 12206231	794012 22673075	1456249	2783912	6279502	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 15:48 Calibration End Date: 06/05/2014 17:14 Calibration ID: 22643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD025 240-133461/17	P1100017.D
Level 2	STD005 240-133461/18	P1100018.D
Level 3	STD01 240-133461/19	P1100019.D
Level 4	STD02 240-133461/20	P1100020.D
Level 5	STD05 240-133461/21	P1100021.D
Level 6	STD1 240-133461/22	P1100022.D
Level 7	STD2 240-133461/23	P1100023.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1248 Peak 1	3.835	3.834	3.835	3.836	3.836	3.835	3.833				3.785 - 3.885	3.835
PCB-1248 Peak 2	4.171	4.171	4.170	4.172	4.172	4.171	4.170				4.121 - 4.221	4.171
PCB-1248 Peak 3	4.435	4.436	4.435	4.437	4.437	4.436	4.435				4.385 - 4.485	4.436
PCB-1248 Peak 4	4.904	4.905	4.905	4.906	4.906	4.906	4.904				4.854 - 4.954	4.905
PCB-1248 Peak 5	5.605	5.606	5.605	5.607	5.606	5.606	5.605				5.555 - 5.655	5.606

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 15:48 Calibration End Date: 06/05/2014 17:14 Calibration ID: 22643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD025 240-133461/17	P1100017.D
Level 2	STD005 240-133461/18	P1100018.D
Level 3	STD01 240-133461/19	P1100019.D
Level 4	STD02 240-133461/20	P1100020.D
Level 5	STD05 240-133461/21	P1100021.D
Level 6	STD1 240-133461/22	P1100022.D
Level 7	STD2 240-133461/23	P1100023.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1248 Peak 1	48058240 40732752	43593920 36077193	39420390 37867925	39827785	Ave		40796886.4				9.7		10.0			
PCB-1248 Peak 2	31983760 24732080	27975760 21677836	25062850 22065131	25146605	Lin1	301302.800	22141678.8							0.9980		0.9900
PCB-1248 Peak 3	39810240 34638450	38040780 30537648	33972860 31579087	34494660	Ave		34724817.9				9.5		10.0			
PCB-1248 Peak 4	53739720 45383652	47935960 40063426	40924030 41490972	44200890	Lin1	309054.314	41353983.7							0.9980		0.9900
PCB-1248 Peak 5	27843400 23572894	24972980 20243440	22197860 21210237	23433795	Lin1	197316.163	21140755.3							0.9970		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 15:48 Calibration End Date: 06/05/2014 17:14 Calibration ID: 22643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD025 240-133461/17	P1100017.D
Level 2	STD005 240-133461/18	P1100018.D
Level 3	STD01 240-133461/19	P1100019.D
Level 4	STD02 240-133461/20	P1100020.D
Level 5	STD05 240-133461/21	P1100021.D
Level 6	STD1 240-133461/22	P1100022.D
Level 7	STD2 240-133461/23	P1100023.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	1201456 36077193	2179696 75735850	3942039	7965557	20366376	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1248 Peak 2	Lin1	799594 21677836	1398788 44130261	2506285	5029321	12366040	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1248 Peak 3	Ave	995256 30537648	1902039 63158174	3397286	6898932	17319225	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1248 Peak 4	Lin1	1343493 40063426	2396798 82981943	4092403	8840178	22691826	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1248 Peak 5	Lin1	696085 20243440	1248649 42420474	2219786	4686759	11786447	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 17:28 Calibration End Date: 06/05/2014 18:54 Calibration ID: 22649

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/24	P1100024.D
Level 2	STD005 240-133461/25	P1100025.D
Level 3	STD01 240-133461/26	P1100026.D
Level 4	STD02 240-133461/27	P1100027.D
Level 5	STD05 240-133461/28	P1100028.D
Level 6	STD1 240-133461/29	P1100029.D
Level 7	STD2 240-133461/30	P1100030.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1221 Peak 1	2.770	2.770	2.770	2.770	2.769	2.769	2.769				2.720 - 2.820	2.770
PCB-1221 Peak 2	2.914	2.913	2.914	2.914	2.912	2.913	2.912				2.864 - 2.964	2.913
PCB-1221 Peak 3	2.974	2.975	2.975	2.974	2.974	2.974	2.974				2.924 - 3.024	2.974
PCB-1254 Peak 1	4.900	4.900	4.901	4.900	4.899	4.899	4.900				4.850 - 4.950	4.900
PCB-1254 Peak 2	5.114	5.115	5.114	5.114	5.114	5.113	5.113				5.064 - 5.164	5.114
PCB-1254 Peak 3	5.605	5.605	5.605	5.605	5.605	5.605	5.605				5.555 - 5.655	5.605
PCB-1254 Peak 4	5.836	5.836	5.836	5.836	5.836	5.836	5.836				5.786 - 5.886	5.836
PCB-1254 Peak 5	6.356	6.356	6.356	6.356	6.356	6.356	6.357				6.306 - 6.406	6.356

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 17:28 Calibration End Date: 06/05/2014 18:54 Calibration ID: 22649

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/24	P1100024.D
Level 2	STD005 240-133461/25	P1100025.D
Level 3	STD01 240-133461/26	P1100026.D
Level 4	STD02 240-133461/27	P1100027.D
Level 5	STD05 240-133461/28	P1100028.D
Level 6	STD1 240-133461/29	P1100029.D
Level 7	STD2 240-133461/30	P1100030.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1221 Peak 1	13427560 11036444	12442320 10547311	12201960 9780747	11537625	Lin1	129262.801	10118119.6							0.9970		0.9900
PCB-1221 Peak 2	8950080 7127552	7606220 6994360	7845720 6364932	7713230	Lin1	79542.0906	6622577.13							0.9970		0.9900
PCB-1221 Peak 3	32205200 26442616	29306900 25683088	29501160 23970669	28096625	Ave		27886608.3				9.9		10.0			
PCB-1254 Peak 1	52741960 41494042	46174080 39627921	45543110 38118670	42003760	Lin1	439829.726	38739558.4							0.9990		0.9900
PCB-1254 Peak 2	56916240 46005432	50941100 43829208	49271410 41985168	45312320	Lin1	446448.671	42744951.0							0.9990		0.9900
PCB-1254 Peak 3	87786160 75869784	80346320 72909562	79702050 70609303	73445380	Ave		77238365.6				7.6		10.0			
PCB-1254 Peak 4	57498400 49621346	52105820 47307737	51509240 45681311	46731045	Ave		50064985.6				8.1		10.0			
PCB-1254 Peak 5	76546160 68446460	71178060 64969178	70479380 63083430	64280965	Ave		68426233.2				6.9		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 17:28 Calibration End Date: 06/05/2014 18:54 Calibration ID: 22649

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/24	P1100024.D
Level 2	STD005 240-133461/25	P1100025.D
Level 3	STD01 240-133461/26	P1100026.D
Level 4	STD02 240-133461/27	P1100027.D
Level 5	STD05 240-133461/28	P1100028.D
Level 6	STD1 240-133461/29	P1100029.D
Level 7	STD2 240-133461/30	P1100030.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Lin1	335689 10547311	622116 19561494	1220196	2307525	5518222	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1221 Peak 2	Lin1	223752 6994360	380311 12729864	784572	1542646	3563776	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1221 Peak 3	Ave	805130 25683088	1465345 47941338	2950116	5619325	13221308	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1254 Peak 1	Lin1	1318549 39627921	2308704 76237339	4554311	8400752	20747021	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1254 Peak 2	Lin1	1422906 43829208	2547055 83970336	4927141	9062464	23002716	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1254 Peak 3	Ave	2194654 72909562	4017316 141218606	7970205	14689076	37934892	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1254 Peak 4	Ave	1437460 47307737	2605291 91362622	5150924	9346209	24810673	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1254 Peak 5	Ave	1913654 64969178	3558903 126166859	7047938	12856193	34223230	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 19:08 Calibration End Date: 06/05/2014 20:34 Calibration ID: 22655

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/31	P1100031.D
Level 2	STD005 240-133461/32	P1100032.D
Level 3	STD01 240-133461/33	P1100033.D
Level 4	STD02 240-133461/34	P1100034.D
Level 5	STD05 240-133461/35	P1100035.D
Level 6	STD1 240-133461/36	P1100036.D
Level 7	STD2 240-133461/37	P1100037.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.975	2.976	2.973	2.974	2.974	2.973	2.974				2.924 - 3.024	2.974
PCB-1016 Peak 2	3.386	3.388	3.384	3.385	3.385	3.384	3.385				3.335 - 3.435	3.385
PCB-1016 Peak 3	3.838	3.838	3.837	3.838	3.837	3.837	3.838				3.787 - 3.887	3.838
PCB-1016 Peak 4	3.971	3.972	3.971	3.972	3.972	3.971	3.971				3.922 - 4.022	3.971
PCB-1016 Peak 5	4.436	4.436	4.435	4.435	4.435	4.435	4.435				4.385 - 4.485	4.435
PCB-1260 Peak 1	5.804	5.805	5.803	5.803	5.803	5.803	5.804				5.753 - 5.853	5.804
PCB-1260 Peak 2	6.011	6.012	6.011	6.012	6.012	6.012	6.011				5.962 - 6.062	6.012
PCB-1260 Peak 3	6.441	6.441	6.441	6.441	6.441	6.440	6.441				6.391 - 6.491	6.441
PCB-1260 Peak 4	6.937	6.938	6.938	6.938	6.937	6.937	6.937				6.887 - 6.987	6.937
PCB-1260 Peak 5	7.260	7.261	7.259	7.259	7.259	7.259	7.259				7.209 - 7.309	7.259
Tetrachloro-m-xylene	2.466	2.466	2.466	2.466	2.465	2.465	2.466				2.415 - 2.515	2.466
DCB Decachlorobiphenyl	8.277	8.277	8.277	8.276	8.276	8.277	8.276				8.226 - 8.326	8.277

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 19:08 Calibration End Date: 06/05/2014 20:34 Calibration ID: 22655

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/31	P1100031.D
Level 2	STD005 240-133461/32	P1100032.D
Level 3	STD01 240-133461/33	P1100033.D
Level 4	STD02 240-133461/34	P1100034.D
Level 5	STD05 240-133461/35	P1100035.D
Level 6	STD1 240-133461/36	P1100036.D
Level 7	STD2 240-133461/37	P1100037.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	23379720 18182728	21267160 17623435	20706160 16905261	19868540	Lin1	223239.475	17201243.5							0.9990		0.9900
PCB-1016 Peak 2	52212520 35261766	45197600 34559785	41077790 33332055	38577980	Lin1	572704.894	33608880.2							0.9990		0.9900
PCB-1016 Peak 3	91400960 76361162	86595780 76954922	83262710 76478832	79026810	Ave		81440168.0				7.2		10.0			
PCB-1016 Peak 4	38749040 31776584	37602460 31373148	36034390 30652707	33856015	Ave		34292049.1				9.4		10.0			
PCB-1016 Peak 5	27627720 24586698	28354880 24250853	28101960 24115910	26693900	Ave		26247417.2				7.2		10.0			
PCB-1260 Peak 1	65161440 51656038	63070560 51364631	59279940 51157480	55067250	Ave		56679619.9				10.0		10.0			
PCB-1260 Peak 2	69869080 57887534	67511540 57753538	64659110 57652807	61026780	Ave		62337198.4				8.1		10.0			
PCB-1260 Peak 3	45853440 39033732	47851940 38386926	43620180 38194112	41205195	Ave		42020789.2				9.1		10.0			
PCB-1260 Peak 4	106670960 98896204	109651540 100512310	106363200 101828420	100101580	Ave		103432031				4.0		10.0			
PCB-1260 Peak 5	80903920 68945308	80372840 69549271	77334890 69449360	71429245	Ave		73997833.4				7.2		10.0			
Tetrachloro-m-xylene	1282855200 1116374440	1217342400 1159724520	1186623000 1171501720	1164034600	Ave		1185493697				4.4		10.0			
DCB Decachlorobiphenyl	1304564800 1042716120	1319031200 1033574160	1292012600 990728660	1137837300	Lin1	690616.444	1005171003							0.9980		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 19:08 Calibration End Date: 06/05/2014 20:34 Calibration ID: 22655

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/31	P1100031.D
Level 2	STD005 240-133461/32	P1100032.D
Level 3	STD01 240-133461/33	P1100033.D
Level 4	STD02 240-133461/34	P1100034.D
Level 5	STD05 240-133461/35	P1100035.D
Level 6	STD1 240-133461/36	P1100036.D
Level 7	STD2 240-133461/37	P1100037.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Lin1	584493 17623435	1063358 33810521	2070616	3973708	9091364	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Lin1	1305313 34559785	2259880 66664109	4107779	7715596	17630883	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	2285024 76954922	4329789 152957664	8326271	15805362	38180581	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	968726 31373148	1880123 61305413	3603439	6771203	15888292	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	Ave	690693 24250853	1417744 48231819	2810196	5338780	12293349	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	1629036 51364631	3153528 102314961	5927994	11013450	25828019	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	1746727 57753538	3375577 115305613	6465911	12205356	28943767	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	1146336 38386926	2392597 76388223	4362018	8241039	19516866	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	2666774 100512310	5482577 203656839	10636320	20020316	49448102	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	Ave	2022598 69549271	4018642 138898719	7733489	14285849	34472654	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	1603569 57986226	3043356 117150172	5933115	11640346	27909361	0.00125 0.0500	0.00250 0.100	0.00500	0.0100	0.0250
DCB Decachlorobiphenyl	Lin1	1630706 51678708	3297578 99072866	6460063	11378373	26067903	0.00125 0.0500	0.00250 0.100	0.00500	0.0100	0.0250

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 20:48 Calibration End Date: 06/05/2014 22:14 Calibration ID: 22661

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/38	P1100038.D
Level 2	STD005 240-133461/39	P1100039.D
Level 3	STD01 240-133461/40	P1100040.D
Level 4	STD02 240-133461/41	P1100041.D
Level 5	STD05 240-133461/42	P1100042.D
Level 6	STD1 240-133461/43	P1100043.D
Level 7	STD2 240-133461/44	P1100044.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1262 Peak 1	6.012	6.012	6.012	6.012	6.012	6.011	6.012				5.962 - 6.062	6.012
PCB-1262 Peak 2	6.441	6.441	6.441	6.441	6.439	6.440	6.441				6.391 - 6.491	6.441
PCB-1262 Peak 3	6.714	6.713	6.713	6.714	6.712	6.711	6.712				6.664 - 6.764	6.713
PCB-1262 Peak 4	6.938	6.937	6.937	6.938	6.937	6.936	6.937				6.888 - 6.988	6.937
PCB-1262 Peak 5	7.256	7.255	7.255	7.255	7.254	7.255	7.254				7.206 - 7.306	7.255

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 20:48 Calibration End Date: 06/05/2014 22:14 Calibration ID: 22661

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/38	P1100038.D
Level 2	STD005 240-133461/39	P1100039.D
Level 3	STD01 240-133461/40	P1100040.D
Level 4	STD02 240-133461/41	P1100041.D
Level 5	STD05 240-133461/42	P1100042.D
Level 6	STD1 240-133461/43	P1100043.D
Level 7	STD2 240-133461/44	P1100044.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1262 Peak 1	54764160 44112396	51385880 42622421	50512180 43182754	41130750	Lin1	360750.822	42770228.7							0.9990		0.9900
PCB-1262 Peak 2	72762080 63511230	74400160 64431409	72068800 65714998	60749260	Ave		67662562.5				7.9		10.0			
PCB-1262 Peak 3	71423480 59449490	67873060 58757180	66498900 60251229	55995465	Ave		62892686.2				9.0		10.0			
PCB-1262 Peak 4	143165280 122717406	135832700 123517269	133732710 130445386	112311280	Ave		128817433				7.9		10.0			
PCB-1262 Peak 5	104484480 84511584	97901200 85080849	95008700 89813684	81296815	Ave		91156758.9				9.2		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 20:48 Calibration End Date: 06/05/2014 22:14 Calibration ID: 22661

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/38	P1100038.D
Level 2	STD005 240-133461/39	P1100039.D
Level 3	STD01 240-133461/40	P1100040.D
Level 4	STD02 240-133461/41	P1100041.D
Level 5	STD05 240-133461/42	P1100042.D
Level 6	STD1 240-133461/43	P1100043.D
Level 7	STD2 240-133461/44	P1100044.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1262 Peak 1	Lin1	1369104 42622421	2569294 86365507	5051218	8226150	22056198	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1262 Peak 2	Ave	1819052 64431409	3720008 131429997	7206880	12149852	31755615	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1262 Peak 3	Ave	1785587 58757180	3393653 120502457	6649890	11199093	29724745	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1262 Peak 4	Ave	3579132 123517269	6791635 260890772	13373271	22462256	61358703	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1262 Peak 5	Ave	2612112 85080849	4895060 179627368	9500870	16259363	42255792	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 22:28 Calibration End Date: 06/05/2014 23:54 Calibration ID: 22667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/45	P1100045.D
Level 2	STD005 240-133461/46	P1100046.D
Level 3	STD01 240-133461/47	P1100047.D
Level 4	STD02 240-133461/48	P1100048.D
Level 5	STD05 240-133461/49	P1100049.D
Level 6	STD1 240-133461/50	P1100050.D
Level 7	STD2 240-133461/51	P1100051.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1268 Peak 1	7.252	7.253	7.253	7.253	7.252	7.253	7.252				7.202 - 7.302	7.253
PCB-1268 Peak 2	7.292	7.293	7.293	7.293	7.292	7.293	7.292				7.242 - 7.342	7.293
PCB-1268 Peak 3	7.511	7.511	7.511	7.510	7.510	7.511	7.510				7.461 - 7.561	7.511
PCB-1268 Peak 4	7.749	7.750	7.749	7.748	7.749	7.749	7.748				7.699 - 7.799	7.749
PCB-1268 Peak 5	8.032	8.033	8.032	8.033	8.032	8.033	8.032				7.982 - 8.082	8.032

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 22:28 Calibration End Date: 06/05/2014 23:54 Calibration ID: 22667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/45	P1100045.D
Level 2	STD005 240-133461/46	P1100046.D
Level 3	STD01 240-133461/47	P1100047.D
Level 4	STD02 240-133461/48	P1100048.D
Level 5	STD05 240-133461/49	P1100049.D
Level 6	STD1 240-133461/50	P1100050.D
Level 7	STD2 240-133461/51	P1100051.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1268 Peak 1	183343680 144816560	168696740 149999682	155493500 153491938	152989260	Ave		158404480				8.3		10.0			
PCB-1268 Peak 2	181662880 145450318	171179900 149772339	158389530 151930694	155183025	Ave		159081241				8.1		10.0			
PCB-1268 Peak 3	149687640 120505362	144277840 123832523	132034270 125961018	128548290	Ave		132120992				8.2		10.0			
PCB-1268 Peak 4	66717400 50983338	62344180 51061805	57562610 50594166	55901125	Lin1	529096.727	50518647.2							1.0000		0.9900
PCB-1268 Peak 5	450305720 393003400	435777280 414689044	403862400 429254314	403866930	Ave		418679870				4.9		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42475-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 22:28 Calibration End Date: 06/05/2014 23:54 Calibration ID: 22667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/45	P1100045.D
Level 2	STD005 240-133461/46	P1100046.D
Level 3	STD01 240-133461/47	P1100047.D
Level 4	STD02 240-133461/48	P1100048.D
Level 5	STD05 240-133461/49	P1100049.D
Level 6	STD1 240-133461/50	P1100050.D
Level 7	STD2 240-133461/51	P1100051.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1268 Peak 1	Ave	4583592 149999682	8434837 306983876	15549350	30597852	72408280	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1268 Peak 2	Ave	4541572 149772339	8558995 303861387	15838953	31036605	72725159	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1268 Peak 3	Ave	3742191 123832523	7213892 251922036	13203427	25709658	60252681	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1268 Peak 4	Lin1	1667935 51061805	3117209 101188331	5756261	11180225	25491669	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1268 Peak 5	Ave	11257643 414689044	21788864 858508628	40386240	80773386	196501700	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: ICV 240-133461/52 Calibration Date: 06/06/2014 00:08

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100052.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		19347133		1.11	1.00	11.2	20.0
PCB-1016 Peak 2	Lin1		39785136		1.17	1.00	16.7	20.0
PCB-1016 Peak 3	Ave	81440168	88118602		1.08	1.00	8.2	20.0
PCB-1016 Peak 4	Ave	34292049	35679096		1.04	1.00	4.0	20.0
PCB-1016 Peak 5	Ave	26247417	27044537		1.03	1.00	3.0	20.0
PCB-1260 Peak 1	Ave	56679620	55441864		0.978	1.00	-2.2	20.0
PCB-1260 Peak 2	Ave	62337198	62013800		0.995	1.00	-0.5	20.0
PCB-1260 Peak 3	Ave	42020789	41035967		0.977	1.00	-2.3	20.0
PCB-1260 Peak 4	Ave	103432031	107616141		1.04	1.00	4.0	20.0
PCB-1260 Peak 5	Ave	73997833	74517863		1.01	1.00	0.7	20.0

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: ICV 240-133461/52 Calibration Date: 06/06/2014 00:08

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100052.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.98	2.92	3.02
PCB-1016 Peak 2	3.39	3.34	3.44
PCB-1016 Peak 3	3.84	3.79	3.89
PCB-1016 Peak 4	3.97	3.92	4.02
PCB-1016 Peak 5	4.44	4.39	4.49
PCB-1260 Peak 1	5.80	5.75	5.85
PCB-1260 Peak 2	6.01	5.96	6.06
PCB-1260 Peak 3	6.44	6.39	6.49
PCB-1260 Peak 4	6.94	6.89	6.99
PCB-1260 Peak 5	7.26	7.21	7.31

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150074/3 Calibration Date: 10/03/2014 22:38

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100018.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		20456742		0.582	0.500	16.3*	15.0
PCB-1016 Peak 2	Lin1		38852778		0.561	0.500	12.2	15.0
PCB-1016 Peak 3	Ave	81440168	85849360		0.527	0.500	5.4	15.0
PCB-1016 Peak 4	Ave	34292049	35370652		0.516	0.500	3.1	15.0
PCB-1016 Peak 5	Ave	26247417	27390440		0.522	0.500	4.4	15.0
PCB-1260 Peak 1	Ave	56679620	55894664		0.493	0.500	-1.4	15.0
PCB-1260 Peak 2	Ave	62337198	65463398		0.525	0.500	5.0	15.0
PCB-1260 Peak 3	Ave	42020789	52068674		0.620	0.500	23.9*	15.0
PCB-1260 Peak 4	Ave	103432031	128052610		0.619	0.500	23.8*	15.0
PCB-1260 Peak 5	Ave	73997833	86869614		0.587	0.500	17.4*	15.0
Tetrachloro-m-xylene	Ave	1185493697	1246176200		0.0263	0.0250	5.1	15.0
DCB Decachlorobiphenyl	Lin1		1088823000		0.0264	0.0250	5.6	15.0

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150074/3 Calibration Date: 10/03/2014 22:38

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100018.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.93	2.88	2.98
PCB-1016 Peak 2	3.34	3.29	3.39
PCB-1016 Peak 3	3.79	3.74	3.84
PCB-1016 Peak 4	3.92	3.87	3.97
PCB-1016 Peak 5	4.38	4.33	4.43
PCB-1260 Peak 1	5.75	5.70	5.80
PCB-1260 Peak 2	5.96	5.91	6.01
PCB-1260 Peak 3	6.39	6.34	6.44
PCB-1260 Peak 4	6.88	6.83	6.93
PCB-1260 Peak 5	7.20	7.15	7.25
Tetrachloro-m-xylene	2.42	2.37	2.47
DCB Decachlorobiphenyl	8.21	8.16	8.26

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150074/9 Calibration Date: 10/04/2014 00:02

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100024.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		19614112		0.557	0.500	11.4	15.0
PCB-1016 Peak 2	Lin1		37314660		0.538	0.500	7.6	15.0
PCB-1016 Peak 3	Ave	81440168	82621418		0.507	0.500	1.5	15.0
PCB-1016 Peak 4	Ave	34292049	34015682		0.496	0.500	-0.8	15.0
PCB-1016 Peak 5	Ave	26247417	26288860		0.501	0.500	0.2	15.0
PCB-1260 Peak 1	Ave	56679620	53558292		0.472	0.500	-5.5	15.0
PCB-1260 Peak 2	Ave	62337198	62887518		0.504	0.500	0.9	15.0
PCB-1260 Peak 3	Ave	42020789	49967810		0.595	0.500	18.9*	15.0
PCB-1260 Peak 4	Ave	103432031	122991988		0.595	0.500	18.9*	15.0
PCB-1260 Peak 5	Ave	73997833	83607248		0.565	0.500	13.0	15.0
Tetrachloro-m-xylene	Ave	1185493697	1186908680		0.0250	0.0250	0.1	15.0
DCB Decachlorobiphenyl	Lin1		1069686440		0.0259	0.0250	3.7	15.0

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: CCV 240-150074/9 Calibration Date: 10/04/2014 00:02

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100024.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.93	2.88	2.98
PCB-1016 Peak 2	3.34	3.29	3.39
PCB-1016 Peak 3	3.79	3.74	3.84
PCB-1016 Peak 4	3.92	3.87	3.97
PCB-1016 Peak 5	4.38	4.33	4.43
PCB-1260 Peak 1	5.75	5.70	5.80
PCB-1260 Peak 2	5.96	5.91	6.01
PCB-1260 Peak 3	6.39	6.34	6.44
PCB-1260 Peak 4	6.88	6.83	6.93
PCB-1260 Peak 5	7.20	7.15	7.25
Tetrachloro-m-xylene	2.42	2.37	2.47
DCB Decachlorobiphenyl	8.21	8.16	8.26

FORM I
PESTICIDES/PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-149713/4-A

Matrix: Water | Lab File ID: P1100022.D

Analysis Method: 608 | Date Collected:

Extraction Method: 608 | Date Extracted: 10/02/2014 08:01

Sample wt/vol: 1000(mL) | Date Analyzed: 10/03/2014 23:34

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 150074 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor-1016	0.11	U	0.25	0.11
11104-28-2	Aroclor-1221	0.11	U	0.25	0.11
11141-16-5	Aroclor-1232	0.18	U	0.25	0.18
53469-21-9	Aroclor-1242	0.15	U	0.25	0.15
12672-29-6	Aroclor-1248	0.15	U	0.25	0.15
11097-69-1	Aroclor-1254	0.080	U	0.25	0.080
11096-82-5	Aroclor-1260	0.095	U	0.25	0.095

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	95		10-114
877-09-8	Tetrachloro-m-xylene	82		15-131

FORM I
PESTICIDES/PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42475-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-149713/5-A

Matrix: Water | Lab File ID: P1100023.D

Analysis Method: 608 | Date Collected:

Extraction Method: 608 | Date Extracted: 10/02/2014 08:01

Sample wt/vol: 1000(mL) | Date Analyzed: 10/03/2014 23:48

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 150074 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor-1016	5.09		0.25	0.11
11096-82-5	Aroclor-1260	4.91		0.25	0.095

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	86		10-114
877-09-8	Tetrachloro-m-xylene	88		15-131

PESTICIDES/PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP11 Start Date: 06/05/2014 12:28

Analysis Batch Number: 133461 End Date: 06/06/2014 00:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD0025 240-133461/3 IC		06/05/2014 12:28	1		CLP-1 0.53(mm)
STD0025 240-133461/3 IC		06/05/2014 12:28	1	P1100003.D	CLP-2 0.53(mm)
STD005 240-133461/4 IC		06/05/2014 12:42	1		CLP-1 0.53(mm)
STD005 240-133461/4 IC		06/05/2014 12:42	1	P1100004.D	CLP-2 0.53(mm)
STD01 240-133461/5 IC		06/05/2014 12:57	1		CLP-1 0.53(mm)
STD01 240-133461/5 IC		06/05/2014 12:57	1	P1100005.D	CLP-2 0.53(mm)
STD02 240-133461/6 IC		06/05/2014 13:11	1		CLP-1 0.53(mm)
STD02 240-133461/6 IC		06/05/2014 13:11	1	P1100006.D	CLP-2 0.53(mm)
STD05 240-133461/7 IC		06/05/2014 13:25	1		CLP-1 0.53(mm)
STD05 240-133461/7 IC		06/05/2014 13:25	1	P1100007.D	CLP-2 0.53(mm)
STD1 240-133461/8 IC		06/05/2014 13:39	1		CLP-1 0.53(mm)
STD1 240-133461/8 IC		06/05/2014 13:39	1	P1100008.D	CLP-2 0.53(mm)
STD2 240-133461/9 IC		06/05/2014 13:54	1		CLP-1 0.53(mm)
STD2 240-133461/9 IC		06/05/2014 13:54	1	P1100009.D	CLP-2 0.53(mm)
STD0025 240-133461/10 IC		06/05/2014 14:08	1		CLP-1 0.53(mm)
STD0025 240-133461/10 IC		06/05/2014 14:08	1	P1100010.D	CLP-2 0.53(mm)
STD005 240-133461/11 IC		06/05/2014 14:22	1		CLP-1 0.53(mm)
STD005 240-133461/11 IC		06/05/2014 14:22	1	P1100011.D	CLP-2 0.53(mm)
STD01 240-133461/12 IC		06/05/2014 14:37	1		CLP-1 0.53(mm)
STD01 240-133461/12 IC		06/05/2014 14:37	1	P1100012.D	CLP-2 0.53(mm)
STD02 240-133461/13 IC		06/05/2014 14:51	1		CLP-1 0.53(mm)
STD02 240-133461/13 IC		06/05/2014 14:51	1	P1100013.D	CLP-2 0.53(mm)
STD05 240-133461/14 IC		06/05/2014 15:05	1		CLP-1 0.53(mm)
STD05 240-133461/14 IC		06/05/2014 15:05	1	P1100014.D	CLP-2 0.53(mm)
STD1 240-133461/15 IC		06/05/2014 15:20	1		CLP-1 0.53(mm)
STD1 240-133461/15 IC		06/05/2014 15:20	1	P1100015.D	CLP-2 0.53(mm)
STD2 240-133461/16 IC		06/05/2014 15:34	1		CLP-1 0.53(mm)
STD2 240-133461/16 IC		06/05/2014 15:34	1	P1100016.D	CLP-2 0.53(mm)
STD025 240-133461/17 IC		06/05/2014 15:48	1		CLP-1 0.53(mm)
STD025 240-133461/17 IC		06/05/2014 15:48	1	P1100017.D	CLP-2 0.53(mm)
STD005 240-133461/18 IC		06/05/2014 16:03	1		CLP-1 0.53(mm)
STD005 240-133461/18 IC		06/05/2014 16:03	1	P1100018.D	CLP-2 0.53(mm)
STD01 240-133461/19 IC		06/05/2014 16:17	1		CLP-1 0.53(mm)

PESTICIDES/PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP11 Start Date: 06/05/2014 12:28

Analysis Batch Number: 133461 End Date: 06/06/2014 00:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD01 240-133461/19 IC		06/05/2014 16:17	1	P1100019.D	CLP-2 0.53(mm)
STD02 240-133461/20 IC		06/05/2014 16:31	1		CLP-1 0.53(mm)
STD02 240-133461/20 IC		06/05/2014 16:31	1	P1100020.D	CLP-2 0.53(mm)
STD05 240-133461/21 IC		06/05/2014 16:45	1		CLP-1 0.53(mm)
STD05 240-133461/21 IC		06/05/2014 16:45	1	P1100021.D	CLP-2 0.53(mm)
STD1 240-133461/22 IC		06/05/2014 16:59	1		CLP-1 0.53(mm)
STD1 240-133461/22 IC		06/05/2014 16:59	1	P1100022.D	CLP-2 0.53(mm)
STD2 240-133461/23 IC		06/05/2014 17:14	1		CLP-1 0.53(mm)
STD2 240-133461/23 IC		06/05/2014 17:14	1	P1100023.D	CLP-2 0.53(mm)
STD0025 240-133461/24 IC		06/05/2014 17:28	1		CLP-1 0.53(mm)
STD0025 240-133461/24 IC		06/05/2014 17:28	1	P1100024.D	CLP-2 0.53(mm)
STD005 240-133461/25 IC		06/05/2014 17:42	1		CLP-1 0.53(mm)
STD005 240-133461/25 IC		06/05/2014 17:42	1	P1100025.D	CLP-2 0.53(mm)
STD01 240-133461/26 IC		06/05/2014 17:56	1		CLP-1 0.53(mm)
STD01 240-133461/26 IC		06/05/2014 17:56	1	P1100026.D	CLP-2 0.53(mm)
STD02 240-133461/27 IC		06/05/2014 18:11	1		CLP-1 0.53(mm)
STD02 240-133461/27 IC		06/05/2014 18:11	1	P1100027.D	CLP-2 0.53(mm)
STD05 240-133461/28 IC		06/05/2014 18:25	1		CLP-1 0.53(mm)
STD05 240-133461/28 IC		06/05/2014 18:25	1	P1100028.D	CLP-2 0.53(mm)
STD1 240-133461/29 IC		06/05/2014 18:39	1		CLP-1 0.53(mm)
STD1 240-133461/29 IC		06/05/2014 18:39	1	P1100029.D	CLP-2 0.53(mm)
STD2 240-133461/30 IC		06/05/2014 18:54	1		CLP-1 0.53(mm)
STD2 240-133461/30 IC		06/05/2014 18:54	1	P1100030.D	CLP-2 0.53(mm)
STD0025 240-133461/31 IC		06/05/2014 19:08	1		CLP-1 0.53(mm)
STD0025 240-133461/31 IC		06/05/2014 19:08	1	P1100031.D	CLP-2 0.53(mm)
STD005 240-133461/32 IC		06/05/2014 19:22	1		CLP-1 0.53(mm)
STD005 240-133461/32 IC		06/05/2014 19:22	1	P1100032.D	CLP-2 0.53(mm)
STD01 240-133461/33 IC		06/05/2014 19:37	1		CLP-1 0.53(mm)
STD01 240-133461/33 IC		06/05/2014 19:37	1	P1100033.D	CLP-2 0.53(mm)
STD02 240-133461/34 IC		06/05/2014 19:51	1		CLP-1 0.53(mm)
STD02 240-133461/34 IC		06/05/2014 19:51	1	P1100034.D	CLP-2 0.53(mm)

PESTICIDES/PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP11 Start Date: 06/05/2014 12:28

Analysis Batch Number: 133461 End Date: 06/06/2014 00:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD05 240-133461/35 ICRT		06/05/2014 20:05	1		CLP-1 0.53(mm)
STD05 240-133461/35 ICRT		06/05/2014 20:05	1	P1100035.D	CLP-2 0.53(mm)
STD1 240-133461/36 IC		06/05/2014 20:20	1		CLP-1 0.53(mm)
STD1 240-133461/36 IC		06/05/2014 20:20	1	P1100036.D	CLP-2 0.53(mm)
STD2 240-133461/37 IC		06/05/2014 20:34	1		CLP-1 0.53(mm)
STD2 240-133461/37 IC		06/05/2014 20:34	1	P1100037.D	CLP-2 0.53(mm)
STD0025 240-133461/38 IC		06/05/2014 20:48	1		CLP-1 0.53(mm)
STD0025 240-133461/38 IC		06/05/2014 20:48	1	P1100038.D	CLP-2 0.53(mm)
STD005 240-133461/39 IC		06/05/2014 21:02	1		CLP-1 0.53(mm)
STD005 240-133461/39 IC		06/05/2014 21:02	1	P1100039.D	CLP-2 0.53(mm)
STD01 240-133461/40 IC		06/05/2014 21:16	1		CLP-1 0.53(mm)
STD01 240-133461/40 IC		06/05/2014 21:16	1	P1100040.D	CLP-2 0.53(mm)
STD02 240-133461/41 IC		06/05/2014 21:31	1		CLP-1 0.53(mm)
STD02 240-133461/41 IC		06/05/2014 21:31	1	P1100041.D	CLP-2 0.53(mm)
STD05 240-133461/42 IC		06/05/2014 21:45	1		CLP-1 0.53(mm)
STD05 240-133461/42 IC		06/05/2014 21:45	1	P1100042.D	CLP-2 0.53(mm)
STD1 240-133461/43 IC		06/05/2014 21:59	1		CLP-1 0.53(mm)
STD1 240-133461/43 IC		06/05/2014 21:59	1	P1100043.D	CLP-2 0.53(mm)
STD2 240-133461/44 IC		06/05/2014 22:14	1		CLP-1 0.53(mm)
STD2 240-133461/44 IC		06/05/2014 22:14	1	P1100044.D	CLP-2 0.53(mm)
STD0025 240-133461/45 IC		06/05/2014 22:28	1		CLP-1 0.53(mm)
STD0025 240-133461/45 IC		06/05/2014 22:28	1	P1100045.D	CLP-2 0.53(mm)
STD005 240-133461/46 IC		06/05/2014 22:42	1		CLP-1 0.53(mm)
STD005 240-133461/46 IC		06/05/2014 22:42	1	P1100046.D	CLP-2 0.53(mm)
STD01 240-133461/47 IC		06/05/2014 22:57	1		CLP-1 0.53(mm)
STD01 240-133461/47 IC		06/05/2014 22:57	1	P1100047.D	CLP-2 0.53(mm)
STD02 240-133461/48 IC		06/05/2014 23:11	1		CLP-1 0.53(mm)
STD02 240-133461/48 IC		06/05/2014 23:11	1	P1100048.D	CLP-2 0.53(mm)
STD05 240-133461/49 IC		06/05/2014 23:25	1		CLP-1 0.53(mm)
STD05 240-133461/49 IC		06/05/2014 23:25	1	P1100049.D	CLP-2 0.53(mm)
STD1 240-133461/50 IC		06/05/2014 23:40	1		CLP-1 0.53(mm)

PESTICIDES/PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP11 Start Date: 06/05/2014 12:28

Analysis Batch Number: 133461 End Date: 06/06/2014 00:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-133461/50 IC		06/05/2014 23:40	1	P1100050.D	CLP-2 0.53(mm)
STD2 240-133461/51 IC		06/05/2014 23:54	1		CLP-1 0.53(mm)
STD2 240-133461/51 IC		06/05/2014 23:54	1	P1100051.D	CLP-2 0.53(mm)
ICV 240-133461/52		06/06/2014 00:08	1		CLP-1 0.53(mm)
ICV 240-133461/52		06/06/2014 00:08	1	P1100052.D	CLP-2 0.53(mm)

PESTICIDES/PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: A2HP11 Start Date: 10/03/2014 22:38

Analysis Batch Number: 150074 End Date: 10/04/2014 00:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-150074/3 CCVRT		10/03/2014 22:38	1		CLP-1 0.53(mm)
CCV 240-150074/3 CCVRT		10/03/2014 22:38	1	P1100018.D	CLP-2 0.53(mm)
ZZZZZ		10/03/2014 22:52	1		CLP-1 0.53(mm)
ZZZZZ		10/03/2014 22:52	1		CLP-2 0.53(mm)
ZZZZZ		10/03/2014 23:06	1		CLP-1 0.53(mm)
ZZZZZ		10/03/2014 23:06	1		CLP-2 0.53(mm)
ZZZZZ		10/03/2014 23:20	1		CLP-1 0.53(mm)
240-42475-2	DSP-1-092914 COMP	10/03/2014 23:20	1	P1100021.D	CLP-2 0.53(mm)
ZZZZZ		10/03/2014 23:34	1		CLP-1 0.53(mm)
MB 240-149713/4-A		10/03/2014 23:34	1	P1100022.D	CLP-2 0.53(mm)
ZZZZZ		10/03/2014 23:48	1		CLP-1 0.53(mm)
LCS 240-149713/5-A		10/03/2014 23:48	1	P1100023.D	CLP-2 0.53(mm)
CCV 240-150074/9		10/04/2014 00:02	1		CLP-1 0.53(mm)
CCV 240-150074/9		10/04/2014 00:02	1	P1100024.D	CLP-2 0.53(mm)

PESTICIDES/PCBS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149713 Batch Start Date: 10/02/14 08:50 Batch Analyst: Earle, Steve

Batch Method: 608 Batch End Date: 10/03/14 08:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	EX10PPMSPK 00013	EX2/.2SURRW 00042	AnalysisComment
240-42475-E-2	DSP-1-092914 COMP	608, 608	T	6 SU	1010 mL	5 mL		1 mL	
MB 240-149713/4		608, 608		7 SU	1000 mL	5 mL		1 mL	assoc w/149710
LCS 240-149713/5		608, 608		7 SU	1000 mL	5 mL	0.5 mL	1 mL	

Batch Notes	
Exchange Solvent Lot #	1573731
Filter Paper Lot Number	1668476 acid cleanup
Na2SO4 Lot Number	1555584
Prep Solvent Lot #	1691136

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG No.:

Project: LM MRC Block E MPE System O&M

Client Sample ID	Lab Sample ID
DSP-1-092914 COMP	240-42475-2

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DSP-1-092914 COMP
Lab Sample ID: 240-42475-2
Lab Name: TestAmerica Canton
Job No.: 240-42475-1
SDG ID.:
Matrix: Water
Date Sampled: 09/29/2014 12:00
Reporting Basis: WET
Date Received: 09/30/2014 07:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.090	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: DSP-1-092914 COMP
Lab Sample ID: 240-42475-2
Lab Name: TestAmerica Canton
Job No.: 240-42475-1
SDG ID.:
Matrix: Water
Date Sampled: 09/29/2014 12:00
Reporting Basis: WET
Date Received: 09/30/2014 07:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.92	10	0.92	ug/L	U		1	6010C
7440-43-9	Cadmium	0.14	5.0	0.14	ug/L	U		1	6010C
7440-47-3	Chromium	0.55	10	0.55	ug/L	U		1	6010C
7440-50-8	Copper	1.9	25	1.9	ug/L	U		1	6010C
7440-02-0	Nickel	0.76	40	0.76	ug/L	U		1	6010C
7439-92-1	Lead	7.9	10	1.9	ug/L	J		1	6010C
7440-66-6	Zinc	15	50	9.6	ug/L	J		1	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

ICV Source: MT6500ICV_00021 Concentration Units: ug/L

CCV Source: MTICPCCV_00031

Analyte	ICV 240-149785/4 10/02/2014 08:41				CCV 240-149785/30 10/02/2014 10:26				CCV 240-149785/42 10/02/2014 11:17			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Antimony	381		375	102	517		500	103	519		500	104
Arsenic	386		375	103	497		500	99	502		500	100
Barium	1520		1500	101	2010		2000	100	1990		2000	100
Beryllium	1540		1500	103	1860		2000	93	1830		2000	91
Cadmium	384		375	102	511		500	102	512		500	102
Chromium	1490		1500	99	1900		2000	95	1940		2000	97
Copper	1530		1500	102	2100		2000	105	2110		2000	105
Lead	371		375	99	462		500	92	472		500	94
Manganese	1540		1500	102	1860		2000	93	1850		2000	92
Nickel	1510		1500	101	1910		2000	96	1920		2000	96
Silver	774		750	103	1040		1000	104	1040		1000	104
Zinc	1570		1500	105	1880		2000	94	1880		2000	94

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 Canton Job No.: 240-42475-1

SDG No.:

ICV Source: MTHgStd_00011 Concentration Units: ug/L

CCV Source: MTHGCALW_00736

Analyte	ICV 240-150058/7-A 10/03/2014 13:21				CCVL 240-150058/10-A 10/03/2014 13:29				CCV 240-150058/11-A 10/03/2014 18:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.51		2.50	100	5.14		5.00	103	4.91		5.00	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

ICV Source: MTHgStd_00011 Concentration Units: ug/L

CCV Source: MTHGCALW_00736

Analyte	CCV 240-150058/11-A 10/03/2014 18:24											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.90		5.00	98								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Method: 6010C Instrument ID: I9

Lab Sample ID: CRI 240-149785/32 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00022

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	10.0	11.1		111	70-130
Arsenic	15.0	13.0	J	87	70-130
Barium	200	203		101	70-130
Beryllium	5.00	4.84	J	97	70-130
Cadmium	5.00	5.10		102	70-130
Chromium	10.0	10.9		109	70-130
Copper	20.0	18.0	J	90	70-130
Manganese	15.0	14.4	J	96	70-130
Nickel	40.0	37.8	J	95	70-130
Lead	10.0	8.40	J	84	70-130
Zinc	50.0	45.7	J	91	70-130
Antimony	20.0	20.2		101	70-130

Lab Sample ID: CRI 240-149785/45 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00022

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	10.0	11.0		110	70-130
Arsenic	15.0	12.0	J	80	70-130
Barium	200	203		102	70-130
Beryllium	5.00	4.95	J	99	70-130
Cadmium	5.00	5.35		107	70-130
Chromium	10.0	11.0		110	70-130
Copper	20.0	17.5	J	88	70-130
Manganese	15.0	14.5	J	97	70-130
Nickel	40.0	38.6	J	97	70-130
Lead	10.0	8.59	J	86	70-130
Zinc	50.0	46.2	J	92	70-130
Antimony	20.0	20.6		103	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Method: 7470A Instrument ID: H1

Lab Sample ID: CRA 240-150058/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00736

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.175	J	87	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-149785/5 10/02/2014 08:45		CCB 240-149785/31 10/02/2014 10:30		CCB 240-149785/43 10/02/2014 11:21			
		Found	C	Found	C	Found	C	Found	C
Antimony	20	2.4	U	2.4	U	2.4	U		
Arsenic	15	2.9	U	2.9	U	2.9	U		
Barium	200	1.0	U	1.0	U	1.0	U		
Beryllium	5.0	0.13	U	0.202	J	0.187	J		
Cadmium	5.0	0.14	U	0.195	J	0.14	U		
Chromium	10	0.55	U	0.55	U	0.55	U		
Copper	25	1.9	U	1.9	U	1.9	U		
Lead	10	1.9	U	1.9	U	1.9	U		
Manganese	15	0.46	U	0.46	U	0.46	U		
Nickel	40	0.76	U	0.76	U	0.76	U		
Silver	10	0.92	U	0.92	U	0.92	U		
Zinc	50	9.6	U	9.6	U	9.6	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-150058/8-A 10/03/2014 13:23		CCB 240-150058/12-A 10/03/2014 18:02		CCB 240-150058/12-A 10/03/2014 18:26			
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.090	U	0.090	U	0.090	U		

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-149504/1-A

Instrument Code: I9 Batch No.: 149785

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.92	U		6010C
7440-38-2	Arsenic	2.9	U		6010C
7440-39-3	Barium	1.0	U		6010C
7440-41-7	Beryllium	0.13	U		6010C
7440-43-9	Cadmium	0.14	U		6010C
7440-47-3	Chromium	0.55	U		6010C
7440-50-8	Copper	1.9	U		6010C
7439-96-5	Manganese	0.478	J		6010C
7440-02-0	Nickel	0.76	U		6010C
7439-92-1	Lead	1.9	U		6010C
7440-66-6	Zinc	9.6	U		6010C
7440-36-0	Antimony	2.48	J		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-149507/1-A

Instrument Code: H1 Batch No.: 150057

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.090	U		7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: ICSA 240-149785/8 Instrument ID: I9

Lab File ID: I9100214A.asc ICS Source: MTTRICSAW_00024

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Antimony		**1.20**	
Arsenic		**-2.92**	
Barium		**-0.114**	
Beryllium		**-0.261**	
Cadmium		**0.386**	
Chromium		**2.87**	
Copper		**-0.502**	
Lead		**-1.03**	
Manganese		**0.790**	
Nickel		**4.74**	
Silver		**0.355**	
Zinc		**2.97**	
Aluminum	*500000*	*499780*	*100*
Boron		*-2.42*	
Calcium	*500000*	*483170*	*97*
Cobalt		*-1.17*	
Iron	*200000*	*189460*	*95*
Lithium		*15.8*	
Magnesium	*500000*	*491210*	*98*
Molybdenum		*-1.90*	
Potassium		*71.7*	
Selenium		*-4.15*	
Silicon		*2.27*	
Sodium		*144*	
Strontium		*10.2*	
Thallium		*2.40*	
Tin		*0.762*	
Titanium		*-0.610*	
Vanadium		*-3.34*	

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 Canton Job No.: 240-42475-1

SDG No.:

Lab Sample ID: ICSAB 240-149785/9 Instrument ID: I9

Lab File ID: I9100214A.asc ICS Source: MTICPICSABW_00005

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Antimony	**1000**	**1016**	**102**
Arsenic	**1000**	**970**	**97**
Barium	**500**	**495**	**99**
Beryllium	**500**	**470**	**94**
Cadmium	**1000**	**1016**	**102**
Chromium	**500**	**473**	**95**
Copper	**500**	**534**	**107**
Lead	**1000**	**867**	**87**
Manganese	**500**	**474**	**95**
Nickel	**1000**	**959**	**96**
Silver	**1000**	**1101**	**110**
Zinc	**1000**	**973**	**97**
Aluminum	*500000*	*492380*	*98*
Boron	*500*	*506*	*101*
Calcium	*500000*	*475860*	*95*
Cobalt	*500*	*481*	*96*
Iron	*200000*	*186140*	*93*
Lithium	*500*	*516*	*103*
Magnesium	*500000*	*480380*	*96*
Molybdenum	*1000*	*927*	*93*
Potassium	*10000*	*10275*	*103*
Selenium	*1000*	*1007*	*101*
Silicon	*10000*	*9787*	*98*
Sodium	*10000*	*10228*	*102*
Strontium	*1500*	*1417*	*94*
Thallium	*1000*	*925*	*92*
Tin	*500*	*510*	*102*
Titanium	*500*	*504*	*101*
Vanadium	*500*	*469*	*94*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 240-42491-G-1-E MS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	0.951		0.090	U	1.00	95	69-134		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 240-42491-G-1-F MSD

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	1.00		1.00	100	69-134	5	20		7470A

SDR = Sample Duplicate Result

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

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-149504/2-A

Lab Name: TestAmerica Canton Job No.: 240-42475-1

Sample Matrix: Water LCS Source: MTAGSPIKEW_00042

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Silver	50.0	54.1		108	80	120		6010C
Arsenic	2000	2020		101	80	120		6010C
Barium	2000	1970		98	80	120		6010C
Beryllium	50.0	45.1		90	80	120		6010C
Cadmium	50.0	53.8		108	80	120		6010C
Chromium	200	196		98	80	120		6010C
Copper	250	263		105	80	120		6010C
Manganese	500	464		93	80	120		6010C
Nickel	500	482		96	80	120		6010C
Lead	500	479		96	80	120		6010C
Zinc	500	474		95	80	120		6010C
Antimony	500	539		108	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-149507/2-A

Lab Name: TestAmerica Canton Job No.: 240-42475-1

Sample Matrix: Water LCS Source: MTHGCALW_00734

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.81		96	81	123		7470A

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

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: I9

Method: 6010C MDL Date: 09/09/2014 14:52

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Cadmium	226.502	5	0.14
Chromium	267.716	10	0.55
Copper	324.753	25	1.9
Lead	220.353	10	1.9
Nickel	231.604	40	0.76
Silver	328.068	10	0.92
Zinc	213.856	50	9.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: I9

Method: 6010C XMDL Date: 09/09/2014 14:52

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Cadmium	226.502	5	0.14
Chromium	267.716	10	0.55
Copper	324.753	25	1.9
Lead	220.353	10	1.9
Nickel	231.604	40	0.76
Silver	328.068	10	0.92
Zinc	213.856	50	9.6

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A MDL Date: 09/17/2014 14:07

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury	253.7	0.2	0.09

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A XMDL Date: 09/17/2014 14:07

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.09

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG No.:

ICP-AES Instrument ID: I9 Date: 09/24/2014

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	Tl	V
Aluminum										0.010824					0.030943
Antimony		-0.000095			-0.000220			-0.000037							0.002984
Arsenic		0.000023			-0.001064	0.000536			-0.000355	0.001157					
Barium															
Beryllium															0.000470
Boron															
Cadmium			0.007748					-0.000000							
Calcium															
Chromium															
Cobalt													0.001852		
Copper				0.000023	0.000140			0.000007							
Iron															
Lead		-0.000126					0.000068	0.000042			0.000321	0.000060			
Lithium				0.000010											
Magnesium															
Manganese															
Molybdenum															
Nickel					0.000518			0.000071							
Potassium															
Selenium									0.000338						
Silver															
Sodium															
Strontium															
Thallium					0.005293				0.001238				-0.000905		-0.002568
Tin															
Titanium															
Vanadium								0.000026							
Zinc						-0.000592									

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-42475-1

SDG No.:

Instrument ID: I9 Date: 09/24/2014 13:00

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		2000	6010C
Cadmium		2000	6010C
Chromium		20000	6010C
Copper		30000	6010C
Nickel		30000	6010C
Lead		15000	6010C
Zinc		10000	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-42475-1

SDG No.:

Instrument ID: H1 Date: 12/10/2013 15:54

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-149504/1-A	10/01/2014 07:52	149504		50	50
LCS 240-149504/2-A	10/01/2014 07:52	149504		50	50
240-42475-2	10/01/2014 07:52	149504		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-149507/1-A	10/01/2014 14:15	149507		50	50
LCS 240-149507/2-A	10/01/2014 14:15	149507		50	50
240-42491-G-1-E MS	10/01/2014 14:15	149507		50	50
240-42491-G-1-F MSD	10/01/2014 14:15	149507		50	50
240-42475-2	10/01/2014 14:15	149507		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 10/02/2014 08:29 End Date: 10/02/2014 13:01

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Cd	Cr	Cu	Mn	Ni	Pb	Sb	Zn								
ICIS 240-149785/1	1		08:29	X	X	X	X	X	X	X	X	X	X	X	X								
CALSTD 240-149785/2 IC			08:33	X	X	X	X	X	X	X	X	X	X	X	X								
CALSTD 240-149785/3 IC			08:37	X	X	X	X	X	X	X	X	X	X	X	X								
ICV 240-149785/4	1		08:41	X	X	X	X	X	X	X	X	X	X	X	X								
ICB 240-149785/5	1		08:45	X				X	X	X		X	X		X								
CRI 240-149785/6			08:49																				
ZZZZZZ			08:53																				
ICSA 240-149785/8	1		08:57	X				X	X	X		X	X		X								
ICSAB 240-149785/9	1		09:01	X	X	X	X	X	X	X	X	X	X	X	X								
CCV 240-149785/10			09:05																				
CCB 240-149785/11			09:09																				
ZZZZZZ			09:13																				
ZZZZZZ			09:17																				
ZZZZZZ			09:21																				
ZZZZZZ			09:26																				
ZZZZZZ			09:30																				
ZZZZZZ			09:34																				
CCV 240-149785/18			09:38																				
CCB 240-149785/19			09:42																				
ZZZZZZ			09:46																				
ZZZZZZ			09:50																				
ZZZZZZ			09:54																				
ZZZZZZ			09:58																				
ZZZZZZ			10:02																				
ZZZZZZ			10:06																				
ZZZZZZ			10:10																				
ZZZZZZ			10:14																				
ZZZZZZ			10:18																				
ZZZZZZ			10:22																				
CCV 240-149785/30	1		10:26	X	X	X	X	X	X	X	X	X	X	X	X								
CCB 240-149785/31	1		10:30	X				X	X	X		X	X		X								
CRI 240-149785/32	1		10:36	X	X	X	X	X	X	X	X	X	X	X	X								
ZZZZZZ			10:40																				
ZZZZZZ			10:45																				
ZZZZZZ			10:49																				
ZZZZZZ			10:53																				
MB 240-149504/1-A	1	R	10:57	X				X	X	X		X	X		X								
LCS 240-149504/2-A	1	R	11:01	X	X	X	X	X	X	X	X	X	X	X	X								
240-42475-2	1	R	11:05	X				X	X	X		X	X		X								
ZZZZZZ			11:09																				
ZZZZZZ			11:13																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 10/02/2014 08:29 End Date: 10/02/2014 13:01

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	As	Ba	Be	Cd	Cr	Cu	Mn	Ni	Pb	Sb	Zn								
CCV 240-149785/42	1		11:17	X	X	X	X	X	X	X	X	X	X	X	X								
CCB 240-149785/43	1		11:21	X				X	X	X		X	X		X								
ZZZZZZ			11:25																				
CRI 240-149785/45	1		11:30	X	X	X	X	X	X	X	X	X	X	X	X								
ZZZZZZ			11:34																				
ZZZZZZ			11:38																				
ZZZZZZ			11:42																				
ZZZZZZ			11:46																				
ZZZZZZ			11:51																				
ZZZZZZ			11:55																				
ZZZZZZ			11:59																				
ZZZZZZ			12:05																				
CCV 240-149785/54			12:08																				
CCB 240-149785/55			12:12																				
ZZZZZZ			12:17																				
ZZZZZZ			12:21																				
ZZZZZZ			12:25																				
ZZZZZZ			12:29																				
ZZZZZZ			12:33																				
ZZZZZZ			12:37																				
ZZZZZZ			12:41																				
ZZZZZZ			12:45																				
ZZZZZZ			12:49																				
ZZZZZZ			12:53																				
CCV 240-149785/66			12:57																				
CCB 240-149785/67			13:01																				

Prep Types

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/03/2014 13:07 End Date: 10/03/2014 19:05

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
IC 240-150058/1-A			13:07	X																			
IC 240-150058/2-A			13:09	X																			
IC 240-150058/3-A			13:11	X																			
IC 240-150058/4-A			13:13	X																			
IC 240-150058/5-A			13:15	X																			
IC 240-150058/6-A			13:17	X																			
ICV 240-150058/7-A	1		13:21	X																			
ICB 240-150058/8-A	1		13:23	X																			
CRA 240-150058/9-A			13:25																				
CRA 240-150058/9-A	1		13:27	X																			
CCVL 240-150058/10-A	1		13:29	X																			
CCB 240-150058/12-A			13:31																				
ZZZZZZ			13:33																				
ZZZZZZ			13:34																				
ZZZZZZ			13:36																				
ZZZZZZ			13:38																				
ZZZZZZ			13:40																				
ZZZZZZ			13:42																				
ZZZZZZ			13:45																				
ZZZZZZ			13:47																				
ZZZZZZ			13:49																				
ZZZZZZ			13:51																				
CCV 240-150058/11-A			13:53																				
CCB 240-150058/12-A			13:55																				
ZZZZZZ			13:57																				
ZZZZZZ			13:59																				
ZZZZZZ			14:01																				
ZZZZZZ			14:05																				
ZZZZZZ			14:07																				
ZZZZZZ			14:09																				
ZZZZZZ			14:12																				
ZZZZZZ			14:14																				
ZZZZZZ			14:16																				
ZZZZZZ			14:18																				
CCV 240-150058/11-A			14:20																				
CCB 240-150058/12-A			14:22																				
ZZZZZZ			14:24																				
ZZZZZZ			14:26																				
ZZZZZZ			14:28																				
ZZZZZZ			14:30																				
ZZZZZZ			14:32																				
ZZZZZZ			14:34																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/03/2014 13:07 End Date: 10/03/2014 19:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:36																				
ZZZZZZ			14:38																				
ZZZZZZ			14:40																				
ZZZZZZ			14:42																				
CCV 240-150058/11-A			14:44																				
CCB 240-150058/12-A			14:47																				
ZZZZZZ			14:49																				
ZZZZZZ			14:51																				
ZZZZZZ			14:53																				
ZZZZZZ			14:55																				
ZZZZZZ			14:57																				
ZZZZZZ			14:59																				
ZZZZZZ			15:01																				
ZZZZZZ			15:03																				
ZZZZZZ			15:05																				
ZZZZZZ			15:07																				
CCV 240-150058/11-A			15:09																				
CCB 240-150058/12-A			15:11																				
ZZZZZZ			15:13																				
ZZZZZZ			15:15																				
ZZZZZZ			15:17																				
ZZZZZZ			15:19																				
CCV 240-150058/11-A			15:22																				
CCB 240-150058/12-A			15:24																				
ZZZZZZ			15:27																				
ZZZZZZ			15:28																				
CCV 240-150058/11-A			15:31																				
CCB 240-150058/12-A			15:33																				
ZZZZZZ			15:35																				
ZZZZZZ			15:37																				
ZZZZZZ			15:40																				
ZZZZZZ			15:42																				
ZZZZZZ			15:44																				
ZZZZZZ			15:46																				
ZZZZZZ			15:48																				
ZZZZZZ			15:50																				
ZZZZZZ			15:52																				
ZZZZZZ			15:55																				
CCV 240-150058/11-A			15:56																				
CCB 240-150058/12-A			15:58																				
ZZZZZZ			16:00																				
ZZZZZZ			16:02																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/03/2014 13:07 End Date: 10/03/2014 19:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:04																				
ZZZZZZ			16:06																				
ZZZZZZ			16:08																				
ZZZZZZ			16:10																				
ZZZZZZ			16:12																				
ZZZZZZ			16:14																				
ZZZZZZ			16:16																				
ZZZZZZ			16:18																				
CCV 240-150058/11-A			16:20																				
CCB 240-150058/12-A			16:22																				
ZZZZZZ			16:24																				
ZZZZZZ			16:26																				
ZZZZZZ			16:28																				
ZZZZZZ			16:30																				
ZZZZZZ			16:32																				
ZZZZZZ			16:34																				
ZZZZZZ			16:36																				
ZZZZZZ			16:38																				
ZZZZZZ			16:40																				
ZZZZZZ			16:42																				
CCV 240-150058/11-A			16:45																				
CCB 240-150058/12-A			16:46																				
ZZZZZZ			16:48																				
ZZZZZZ			16:50																				
ZZZZZZ			16:52																				
ZZZZZZ			16:54																				
ZZZZZZ			16:57																				
ZZZZZZ			16:59																				
ZZZZZZ			17:01																				
ZZZZZZ			17:03																				
ZZZZZZ			17:05																				
ZZZZZZ			17:07																				
CCV 240-150058/11-A			17:09																				
CCB 240-150058/12-A			17:11																				
ZZZZZZ			17:13																				
ZZZZZZ			17:15																				
ZZZZZZ			17:17																				
ZZZZZZ			17:19																				
ZZZZZZ			17:21																				
ZZZZZZ			17:23																				
ZZZZZZ			17:26																				
ZZZZZZ			17:28																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/03/2014 13:07 End Date: 10/03/2014 19:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			17:30																				
ZZZZZZ			17:32																				
CCV 240-150058/11-A			17:34																				
CCB 240-150058/12-A			17:36																				
ZZZZZZ			17:39																				
ZZZZZZ			17:42																				
ZZZZZZ			17:44																				
ZZZZZZ			17:47																				
ZZZZZZ			17:48																				
ZZZZZZ			17:51																				
ZZZZZZ			17:53																				
ZZZZZZ			17:54																				
ZZZZZZ			17:56																				
ZZZZZZ			17:59																				
CCV 240-150058/11-A	1		18:00	X																			
CCB 240-150058/12-A	1		18:02	X																			
MB 240-149507/1-A	1	T	18:04	X																			
LCS 240-149507/2-A	1	T	18:06	X																			
ZZZZZZ			18:08																				
240-42491-G-1-E MS	1	T	18:11	X																			
240-42491-G-1-F MSD	1	T	18:12	X																			
ZZZZZZ			18:14																				
240-42475-2	1	T	18:16	X																			
ZZZZZZ			18:18																				
ZZZZZZ			18:20																				
ZZZZZZ			18:22																				
CCV 240-150058/11-A	1		18:24	X																			
CCB 240-150058/12-A	1		18:26	X																			
ZZZZZZ			18:28																				
ZZZZZZ			18:30																				
ZZZZZZ			18:32																				
ZZZZZZ			18:34																				
ZZZZZZ			18:36																				
ZZZZZZ			18:38																				
ZZZZZZ			18:40																				
ZZZZZZ			18:42																				
ZZZZZZ			18:44																				
ZZZZZZ			18:46																				
CCV 240-150058/11-A			18:49																				
CCB 240-150058/12-A			18:51																				
ZZZZZZ			18:52																				
ZZZZZZ			18:54																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/03/2014 13:07 End Date: 10/03/2014 19:05

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			18:56																				
ZZZZZZ			18:58																				
ZZZZZZ			19:01																				
CCV 240-150058/11-A			19:03																				
CCB 240-150058/12-A			19:05																				

Prep Types

T = Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149504 Batch Start Date: 10/01/14 07:51 Batch Analyst: Lecorchick, Willis A

Batch Method: 3005A Batch End Date: 10/01/14 15:51

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00042	MTICP1 00033	MTICP2A 00040	MTTMHCL 00045
MB 240-149504/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-149504/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-42475-A-2	DSP-1-092914 COMP	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00039					
MB 240-149504/1		3005A, 6010C		1 mL					
LCS 240-149504/2		3005A, 6010C		1 mL					
240-42475-A-2	DSP-1-092914 COMP	3005A, 6010C	R	1 mL					

Batch Notes	
Filter Paper Lot Number	9579735
Hot Block ID number	HB2
Pipette ID	383364
Digestion Tube/Cup Lot #	1404094

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149507 Batch Start Date: 10/01/14 14:15 Batch Analyst: Lecorchick, Willis A

Batch Method: 7470A Batch End Date: 10/01/14 16:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00014	MTH2S04 00020	MTHGCALW 00734	MTKMN04W 00070
MB 240-149507/1		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
LCS 240-149507/2		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-42491-G-1 MS		7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-42491-G-1 MSD		7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-42475-A-2	DSP-1-092914 COMP	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00039
MB 240-149507/1		7470A, 7470A		1.25 mL
LCS 240-149507/2		7470A, 7470A		1.25 mL
240-42491-G-1 MS		7470A, 7470A	T	1.25 mL
240-42491-G-1 MSD		7470A, 7470A	T	1.25 mL
240-42475-A-2	DSP-1-092914 COMP	7470A, 7470A	T	1.25 mL

Batch Notes	
Hot Block ID number	B1
Pipette ID	383363-383366
Digestion Tube/Cup Lot #	1404094

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 150058 Batch Start Date: 10/03/14 08:40 Batch Analyst: Martin, Aaron

Batch Method: 7470A Batch End Date: 10/03/14 10:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTH2S04 00020	MTHGCALW 00736	MTHgStd 00011	MTK2S208RGNT 00054
ICV 240-150058/7		7470A, 7470A		50 mL	50 mL	2.5 mL		0.125 mL	4 mL
ICB 240-150058/8		7470A, 7470A		50 mL	50 mL	2.5 mL			4 mL
CRA 240-150058/9		7470A, 7470A		50 mL	50 mL	2.5 mL	0.1 mL		4 mL
CCVL 240-150058/10		7470A, 7470A		50 mL	50 mL	2.5 mL	2.5 mL		4 mL
CCV 240-150058/11		7470A, 7470A		50 mL	50 mL	2.5 mL	2.5 mL		4 mL
CCB 240-150058/12		7470A, 7470A		50 mL	50 mL	2.5 mL			4 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTKMN04W 00070	MTTMHNO3 00040				
ICV 240-150058/7		7470A, 7470A		7.5 mL	1.25 mL				
ICB 240-150058/8		7470A, 7470A		7.5 mL	1.25 mL				
CRA 240-150058/9		7470A, 7470A		7.5 mL	1.25 mL				
CCVL 240-150058/10		7470A, 7470A		7.5 mL	1.25 mL				
CCV 240-150058/11		7470A, 7470A		7.5 mL	1.25 mL				
CCB 240-150058/12		7470A, 7470A		7.5 mL	1.25 mL				

Batch Notes	
Hot Block ID number	B1
Pipette ID	383364-383366
Digestion Tube/Cup Lot #	1404094

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG No.:

Project: LM MRC Block E MPE System O&M

Client Sample ID	Lab Sample ID
DSP-1-092914 GRAB	240-42475-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DSP-1-092914 GRAB
Lab Sample ID: 240-42475-1
Lab Name: TestAmerica Canton
Job No.: 240-42475-1
SDG ID.:
Matrix: Water
Date Sampled: 09/29/2014 12:00
Reporting Basis: WET
Date Received: 09/30/2014 07:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0020	0.010	0.0020	mg/L	U		1	SM 4500 CN E
	Chemical Oxygen Demand	5.5	10	5.1	mg/L	J		1	5220D-1997
7723-14-0	Total Phosphorus as P	0.067	0.10	0.050	mg/L	J		1	SM4500 P E-1999
	HEM (Oil & Grease)	0.99	4.8	0.99	mg/L	U		1	1664A
	SGT-HEM	1.1	9.6	1.1	mg/L	U		1	1664A
	Biochemical Oxygen Demand	2.0	2.0	2.0	mg/L	U		1	5210B-2001
	Total Suspended Solids	1.8	4.0	1.8	mg/L	U		1	SM 2540D
	Nitrogen, Kjeldahl	2.3	5.0	1.7	mg/L	J		1	SM4500_NH3_C
	pH	8.05	0.100	0.100	SU		HF	1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Analyst: SEM Batch Start Date: 10/07/2014

Reporting Units: mg/L Analytical Batch No.: 150489

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	12:12	Cyanide, Total	0.104	0.100	104	90-110		WCCN.1CCV1_00175
2	CCB	12:12	Cyanide, Total	0.0020				U	
4	CCVL	12:12	Cyanide, Total	0.0260	0.0250	104	90-110		WCCN10PPM1_00175
11	CCV	12:18	Cyanide, Total	0.102	0.100	102	90-110		WCCN.1CCV1_00175
12	CCB	12:18	Cyanide, Total	0.0020				U	
23	CCV	12:23	Cyanide, Total	0.104	0.100	104	90-110		WCCN.1CCV1_00175
24	CCB	12:23	Cyanide, Total	0.0020				U	
37	CCV	12:53	Cyanide, Total	0.104	0.100	104	90-110		WCCN.1CCV1_00175
38	CCB	12:53	Cyanide, Total	0.0020				U	
43	CCVH	12:55	Cyanide, Total	0.105	0.100	105	90-110		WCCN10PPM1_00175
44	CCV	12:56	Cyanide, Total	0.107	0.100	107	90-110		WCCN.1CCV1_00175
45	CCB	12:56	Cyanide, Total	0.0020				U	

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Analyst: JAK Batch Start Date: 10/01/2014

Reporting Units: mg/L Analytical Batch No.: 149630

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	16:26	Chemical Oxygen Demand	63.8	68.0	94	90-110		COD LCS_00004
8	ICB	16:27	Chemical Oxygen Demand	5.1				U	
19	CCV	16:34	Chemical Oxygen Demand	54.1	50.0	108	90-110		WCCOD1000_00011
20	CCB	16:34	Chemical Oxygen Demand	5.1				U	
31	CCV	16:41	Chemical Oxygen Demand	54.1	50.0	108	90-110		WCCOD1000_00011
32	CCB	16:42	Chemical Oxygen Demand	5.1				U	
39	CCV	16:46	Chemical Oxygen Demand	53.8	50.0	108	90-110		WCCOD1000_00011
40	CCB	16:47	Chemical Oxygen Demand	5.1				U	

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Analyst: BLW Batch Start Date: 10/03/2014

Reporting Units: mg/L Analytical Batch No.: 150059

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	CCV	14:42	Total Phosphorus as P	0.538	0.500	108	90-110		WCPHOS50PPM_00052
11	CCB	14:43	Total Phosphorus as P	0.050				U	
22	CCV	14:46	Total Phosphorus as P	0.530	0.500	106	90-110		WCPHOS50PPM_00052
23	CCB	14:46	Total Phosphorus as P	0.050				U	

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Analyst: NJE Batch Start Date: 09/30/2014

Reporting Units: SU Analytical Batch No.: 149337

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	09:18	pH	7.020	7.00	100	99-101		WCPH7_00042
6	CCV	09:25	pH	7.030	7.00	100	99-101		WCPH7_00042
10	CCV	09:35	pH	7.010	7.00	100	99-101		WCPH7_00042

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 149978	Date: 10/03/2014 09:00	Prep Batch: 149955	Date: 10/03/2014 09:00				
1664A	MB 240-149955/1-A	HEM (Oil & Grease)	1.0	U	mg/L	5.0	1
Batch ID: 149630	Date: 10/01/2014 16:28						
5220D-1997	MB 240-149630/9	Chemical Oxygen Demand	5.1	U	mg/L	10	1
Batch ID: 149746	Date: 10/02/2014 08:59						
SM 2540D	MB 240-149746/1	Total Suspended Solids	1.8	U	mg/L	4.0	1
Batch ID: 150489	Date: 10/07/2014 12:12	Prep Batch: 150388	Date: 10/07/2014 08:52				
SM 4500 CN E	MB 240-150388/1-A	Cyanide, Total	0.0020	U	mg/L	0.010	1
Batch ID: 150059	Date: 10/03/2014 14:43	Prep Batch: 149967	Date: 10/03/2014 09:11				
SM4500 P E-1999	MB 240-149967/10-A	Total Phosphorus as P	0.050	U	mg/L	0.10	1
Batch ID: 149911	Date: 10/03/2014 14:20	Prep Batch: 149842	Date: 10/02/2014 14:50				
SM4500_NH3_C	MB 240-149842/1-A	Nitrogen, Kjeldahl	1.7	U	mg/L	5.0	1

3-IN
UNSEEDED CONTROL BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 149475	Date: 10/01/2014 06:01						
5210B-2001	USB 240-149475/1	Biochemical Oxygen Demand	2.0	U	mg/L	2.0	1

FORM III-IN

3-IN
SEEDED CONTROL BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 149475	Date: 10/01/2014 06:03						
5210B-2001	SCB 240-149475/2	Biochemical Oxygen Demand	2.0	U s	mg/L	2.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 149630	Date: 10/01/2014 16:44										
5220D-1997	240-42475-1	Chemical Oxygen Demand	5.5	J	mg/L						
5220D-1997	240-42475-1 MS	Chemical Oxygen Demand	50.7		mg/L	50.0	90	90-110			
Batch ID: 150489	Date: 10/07/2014 12:13	Prep Batch: 150388	Date: 10/07/2014 08:52								
SM 4500 CN E	240-42411-G-1 -B	Cyanide, Total	0.0020	U	mg/L						
SM 4500 CN E	240-42411-G-1 -B MS	Cyanide, Total	0.0432		mg/L	0.0400	108	42-140			
Batch ID: 150059	Date: 10/03/2014 14:43	Prep Batch: 149967	Date: 10/03/2014 09:11								
SM4500 P E-1999	240-42554-A-1 -B	Total Phosphorus as P	0.050	U	mg/L						
SM4500 P E-1999	240-42554-A-1 -B MS	Total Phosphorus as P	0.578		mg/L	0.500	116	10-199			
Batch ID: 149911	Date: 10/03/2014 14:24	Prep Batch: 149842	Date: 10/02/2014 14:50								
SM4500_NH3_C	240-42475-1	Nitrogen, Kjeldahl	2.3	J	mg/L						
SM4500_NH3_C	240-42475-1 MS	Nitrogen, Kjeldahl	18.1		mg/L	20.0	79	10-200			

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

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 149630	Date: 10/01/2014 16:44										
5220D-1997	240-42475-1 MSD	Chemical Oxygen Demand	51.3		mg/L	50.0	92	90-110	1	20	
Batch ID: 150489	Date: 10/07/2014 12:13	Prep Batch: 150388	Date: 10/07/2014 08:52								
SM 4500 CN E	240-42411-G-1 -C MSD	Cyanide, Total	0.0426		mg/L	0.0400	106	42-140	1	20	
Batch ID: 150059	Date: 10/03/2014 14:43	Prep Batch: 149967	Date: 10/03/2014 09:11								
SM4500 P E-1999	240-42554-A-1 -C MSD	Total Phosphorus as P	0.550		mg/L	0.500	110	10-199	5	20	
Batch ID: 149911	Date: 10/03/2014 14:25	Prep Batch: 149842	Date: 10/02/2014 14:50								
SM4500_NH3_C	240-42475-1 MSD	Nitrogen, Kjeldahl	20.9		mg/L	20.0	93	10-200	14	20	

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

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 149337	Date: 09/30/2014 09:19							
4500 H+ B-2000		240-42469-Q-1	pH	7.47	SU			
4500 H+ B-2000		240-42469-Q-1 DU	pH	7.450	SU	0.3	20	
Batch ID: 149746	Date: 10/02/2014 08:59							
SM 2540D		240-42538-F-3	Total Suspended Solids	56	mg/L			
SM 2540D		240-42538-F-3 DU	Total Suspended Solids	52.0	mg/L	7	10	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 149978	Date: 10/03/2014 09:00		Prep Batch: 149955			Date: 10/03/2014 09:00					
						LCS Source: wchemlcs_00077					
1664A	LCS 240-149955/2-A	HEM (Oil & Grease)	39.2		mg/L	40.0	98	78-114			
Batch ID: 149337	Date: 09/30/2014 09:18										
						LCS Source: WCPHLCS_00009					
4500 H+ B-2000	LCS 240-149337/2	pH	7.210		SU	7.09	102	97-103			
Batch ID: 149475	Date: 10/01/2014 06:07										
						LCS Source: WCBODLCS_00033					
5210B-2001	LCS 240-149475/3	Biochemical Oxygen Demand	<-51.83		mg/L	198	NaN	85-115			
Batch ID: 149630	Date: 10/01/2014 16:28										
						LCS Source: COD LCS_00004					
5220D-1997	LCS 240-149630/10	Chemical Oxygen Demand	62.6		mg/L	68.0	92	90-110			
Batch ID: 149746	Date: 10/02/2014 08:59										
						LCS Source: WCPHENOVSOLID_00008					
SM 2540D	LCS 240-149746/2	Total Suspended Solids	96.0		mg/L	99.3	97	73-113			
Batch ID: 150489	Date: 10/07/2014 12:53		Prep Batch: 150388			Date: 10/07/2014 08:52					
						LCS Source: WCERAPHEN0L_00015					
SM 4500 CN E	LCS 240-150388/2-A	Cyanide, Total	0.0649		mg/L	0.0921	70	69-118			
Batch ID: 150059	Date: 10/03/2014 14:43		Prep Batch: 149967			Date: 10/03/2014 09:11					
						LCS Source: WCWIBBYNUTRIE_00021					
SM4500 P E-1999	LCS 240-149967/11-A	Total Phosphorus as P	0.325		mg/L	0.313	104	53-134			
Batch ID: 149911	Date: 10/03/2014 14:21		Prep Batch: 149842			Date: 10/02/2014 14:50					
						LCS Source: WCWIBBYNUTRIE_00021					
SM4500_NH3_C	LCS 240-149842/2-A	Nitrogen, Kjeldahl	20.4		mg/L	24.9	82	65-144			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: SAURON

Method: SM 4500 CN E MDL Date: 07/09/2014 11:00

Prep Method: Distill/CN

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cyanide, Total		0.01	0.002

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: SAURON

Method: SM 4500 CN E XMDL Date: 07/09/2014 11:01

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.002

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: ERNIE

Method: 5220D-1997 MDL Date: 06/04/2014 17:32

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chemical Oxygen Demand		10	5.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: ERNIE

Method: 5220D-1997 XMDL Date: 06/04/2014 17:32

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chemical Oxygen Demand		10	5.1

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: BARNEY

Method: SM4500 P E-1999 MDL Date: 07/09/2014 15:43

Prep Method: 365.2/365.3/365

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Phosphorus as P		0.1	0.05

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: BARNEY

Method: SM4500 P E-1999 XMDL Date: 07/09/2014 15:43

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Phosphorus as P		0.1	0.05

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 1664A MDL Date: 09/17/2014 09:15

Prep Method: 1664A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
HEM (Oil & Grease)		5	1.03
SGT-HEM		10	1.12

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 1664A XMDL Date: 09/17/2014 09:17

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
HEM (Oil & Grease)		5	1.03
SGT-HEM		10	1.12

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: Bugsy

Method: 5210B-2001 MDL Date: 01/27/2010 15:37

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: Bugsy

Method: 5210B-2001 XMDL Date: 01/27/2010 15:37

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2540D MDL Date: 01/28/2010 09:47

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Suspended Solids		4	1.8

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2540D XMDL Date: 01/28/2010 09:48

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Suspended Solids		4	1.8

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM4500_NH3_C MDL Date: 07/30/2013 09:46

Prep Method: SM4500Norg_C

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrogen, Kjeldahl		5	1.7

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM4500_NH3_C XMDL Date: 07/30/2013 09:49

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrogen, Kjeldahl		5	1.7

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-42475-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Prep Method: Distill/CN

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-150388/1-A	10/07/2014 08:52	150388		50	25
LCS 240-150388/2-A	10/07/2014 08:52	150388		50	25
240-42411-G-1-B MS	10/07/2014 08:52	150388		50	25
240-42411-G-1-C MSD	10/07/2014 08:52	150388		50	25
240-42475-1	10/07/2014 08:52	150388		50	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Prep Method: 365.2/365.3/365

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-149967/10-A	10/03/2014 09:11	149967		50	50
LCS 240-149967/11-A	10/03/2014 09:11	149967		50	50
240-42554-A-1-B MS	10/03/2014 09:11	149967		50	50
240-42554-A-1-C MSD	10/03/2014 09:11	149967		50	50
240-42475-1	10/03/2014 09:11	149967		50	50

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Prep Method: SM4500Norg_C

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-149842/1-A	10/02/2014 14:50	149842		25	25
LCS 240-149842/2-A	10/02/2014 14:50	149842		25	25
240-42475-1	10/02/2014 14:50	149842		25	25
240-42475-1 MS	10/02/2014 14:50	149842		25	25
240-42475-1 MSD	10/02/2014 14:50	149842		25	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Prep Method: 1664A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-149955/1-A	10/03/2014 09:00	149955		1000	1000
LCS 240-149955/2-A	10/03/2014 09:00	149955		1000	1000
240-42475-1	10/03/2014 09:00	149955		1042	1000

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: SAURON Method: SM 4500 CN E

Start Date: 10/07/2014 12:12 End Date: 10/07/2014 12:56

Lab Sample ID	D/F	Type	Time	Analytes																			
				CN																			
CCV 240-150489/1	1		12:12	X																			
CCB 240-150489/2	1		12:12	X																			
MB 240-150388/1-A	1	T	12:12	X																			
CCVL 240-150388/26-A	1		12:12	X																			
ZZZZZZ			12:13																				
240-42411-G-1-B MS	1	T	12:13	X																			
240-42411-G-1-C MSD	1	T	12:13	X																			
ZZZZZZ			12:13																				
ZZZZZZ			12:13																				
ZZZZZZ			12:13																				
CCV 240-150489/11	1		12:18	X																			
CCB 240-150489/12	1		12:18	X																			
ZZZZZZ			12:18																				
ZZZZZZ			12:18																				
ZZZZZZ			12:18																				
ZZZZZZ			12:18																				
ZZZZZZ			12:18																				
240-42475-1	1	T	12:18	X																			
ZZZZZZ			12:18																				
ZZZZZZ			12:18																				
ZZZZZZ			12:18																				
ZZZZZZ			12:18																				
CCV 240-150489/23	1		12:23	X																			
CCB 240-150489/24	1		12:23	X																			
ZZZZZZ			12:23																				
ZZZZZZ			12:23																				
ZZZZZZ			12:23																				
ZZZZZZ			12:23																				
ZZZZZZ			12:23																				
ZZZZZZ			12:23																				
CCV 240-150489/31			12:25																				
CCB 240-150489/32			12:25																				
CCV 240-150489/33			12:29																				
CCB 240-150489/34			12:29																				
CCV 240-150489/35			12:32																				
CCB 240-150489/36			12:32																				
CCV 240-150489/37	1		12:53	X																			
CCB 240-150489/38	1		12:53	X																			
LCS 240-150388/2-A	1	T	12:53	X																			
ZZZZZZ			12:53																				
ZZZZZZ			12:53																				
ZZZZZZ			12:53																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: SAURON Method: SM 4500 CN E

Start Date: 10/07/2014 12:12 End Date: 10/07/2014 12:56

Lab Sample ID	D / F	Type	Time	Analytes																			
				CN																			
CCVH 240-150388/25-A	5		12:55	X																			
CCV 240-150489/44	1		12:56	X																			
CCB 240-150489/45	1		12:56	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: ERNIE Method: 5220D-1997

Start Date: 10/01/2014 16:23 End Date: 10/01/2014 16:47

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
IC 240-149630/1			16:23	X																			
IC 240-149630/2			16:23	X																			
IC 240-149630/3			16:24	X																			
IC 240-149630/4			16:24	X																			
IC 240-149630/5			16:25	X																			
IC 240-149630/6			16:26	X																			
ICV 240-149630/7	2		16:26	X																			
ICB 240-149630/8	1		16:27	X																			
MB 240-149630/9	1	T	16:28	X																			
LCS 240-149630/10	2	T	16:28	X																			
ZZZZZZ			16:29																				
ZZZZZZ			16:29																				
ZZZZZZ			16:30																				
ZZZZZZ			16:31																				
ZZZZZZ			16:31																				
ZZZZZZ			16:32																				
ZZZZZZ			16:33																				
ZZZZZZ			16:33																				
CCV 240-149630/19	1		16:34	X																			
CCB 240-149630/20	1		16:34	X																			
ZZZZZZ			16:35																				
ZZZZZZ			16:36																				
ZZZZZZ			16:36																				
ZZZZZZ			16:37																				
ZZZZZZ			16:38																				
ZZZZZZ			16:38																				
ZZZZZZ			16:39																				
ZZZZZZ			16:39																				
ZZZZZZ			16:40																				
ZZZZZZ			16:41																				
CCV 240-149630/31	1		16:41	X																			
CCB 240-149630/32	1		16:42	X																			
ZZZZZZ			16:43																				
240-42475-1	1	T	16:43	X																			
240-42475-1 MS	1	T	16:44	X																			
240-42475-1 MSD	1	T	16:44	X																			
ZZZZZZ			16:45																				
ZZZZZZ			16:46																				
CCV 240-149630/39	1		16:46	X																			
CCB 240-149630/40	1		16:47	X																			

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: ERNIE Method: 5220D-1997

Start Date: 10/01/2014 16:23 End Date: 10/01/2014 16:47

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: BARNEY Method: SM4500 P E-1999

Start Date: 10/03/2014 13:35 End Date: 10/03/2014 15:01

Lab Sample ID	D / F	Type	Time	Analytes																			
				P																			
ZZZZZZ			13:35																				
ZZZZZZ			13:35																				
ZZZZZZ			13:35																				
ZZZZZZ			13:35																				
ZZZZZZ			13:35																				
ZZZZZZ			13:35																				
ZZZZZZ			13:35																				
CCV 240-149967/8-A			13:35																				
CCB 240-149967/9-A			13:35																				
CCV 240-149967/8-A	1		14:42	X																			
CCB 240-149967/9-A	1		14:43	X																			
MB 240-149967/10-A	1	T	14:43	X																			
LCS 240-149967/11-A	1	T	14:43	X																			
ZZZZZZ			14:43																				
240-42554-A-1-B MS	1	T	14:43	X																			
240-42554-A-1-C MSD	1	T	14:43	X																			
ZZZZZZ			14:43																				
ZZZZZZ			14:43																				
ZZZZZZ			14:43																				
ZZZZZZ			14:43																				
240-42475-1	1	T	14:43	X																			
CCV 240-149967/8-A	1		14:46	X																			
CCB 240-149967/9-A	1		14:46	X																			
ZZZZZZ			14:46																				
ZZZZZZ			14:46																				
ZZZZZZ			14:46																				
ZZZZZZ			14:46																				
ZZZZZZ			14:46																				
ZZZZZZ			14:46																				
ZZZZZZ			14:46																				
CCV 240-149967/8-A			14:48																				
CCB 240-149967/9-A			14:48																				
CCV 240-149967/8-A			14:50																				
CCB 240-149967/9-A			14:50																				
ZZZZZZ			14:57																				
ZZZZZZ			14:57																				
ZZZZZZ			14:57																				
CCV 240-149967/8-A			14:58																				
CCB 240-149967/9-A			14:58																				
ZZZZZZ			15:00																				
ZZZZZZ			15:00																				
ZZZZZZ			15:00																				

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: BARNEY Method: SM4500 P E-1999

Start Date: 10/03/2014 13:35 End Date: 10/03/2014 15:01

Lab Sample ID	D / F	Type	Time	Analytes																			
				P																			
CCV 240-149967/8-A			15:01																				
CCB 240-149967/9-A			15:01																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: NOEQUIP Method: 1664A

Start Date: 10/03/2014 09:00 End Date: 10/03/2014 14:49

Lab Sample ID	D / F	Type	Time	Analytes																				
				HEM	SGTHEM																			
MB 240-149955/1-A	1	T	09:00	X																				
LCS 240-149955/2-A	1	T	09:00	X																				
ZZZZZZ			09:00																					
ZZZZZZ			09:00																					
240-42475-1	1	T	09:00	X	X																			
ZZZZZZ			09:00																					
ZZZZZZ			09:00																					
ZZZZZZ			09:00																					
ZZZZZZ			09:00																					
ZZZZZZ			09:00																					
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ZZZZZZ			09:00																					
ZZZZZZ			09:00																					
ZZZZZZ			09:00																					
ZZZZZZ			09:00																					
ZZZZZZ			14:49																					
ZZZZZZ			14:49																					
ZZZZZZ			14:49																					
ZZZZZZ			14:49																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: Bugsy Method: 5210B-2001

Start Date: 10/01/2014 06:01 End Date: 10/01/2014 06:53

Lab Sample ID	D / F	Type	Time	Analytes																			
				BOD																			
USB 240-149475/1	1	T	06:01	X																			
SCB 240-149475/2	1	T	06:03	X																			
LCS 240-149475/3	1	T	06:07	X																			
ZZZZZZ			06:11																				
ZZZZZZ			06:14																				
240-42475-1	1	T	06:20	X																			
ZZZZZZ			06:45																				
ZZZZZZ			06:53																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2540D

Start Date: 10/02/2014 08:59 End Date: 10/02/2014 08:59

Lab Sample ID	D / F	Type	Time	Analytes																				
				TSS																				
MB 240-149746/1	1	T	08:59	X																				
LCS 240-149746/2	1	T	08:59	X																				
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
240-42538-F-3 DU	1	T	08:59	X																				
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
240-42475-1	1	T	08:59	X																				
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					
ZZZZZZ			08:59																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: NOEQUIP Method: SM4500_NH3_C

Start Date: 10/03/2014 14:20 End Date: 10/03/2014 14:31

Lab Sample ID	D / F	Type	Time	Analytes																			
				TKN																			
MB 240-149842/1-A	1	T	14:20	X																			
LCS 240-149842/2-A	1	T	14:21	X																			
ZZZZZZ			14:22																				
240-42475-1	1	T	14:23	X																			
240-42475-1 MS	1	T	14:24	X																			
240-42475-1 MSD	1	T	14:25	X																			
ZZZZZZ			14:26																				
ZZZZZZ			14:27																				
ZZZZZZ			14:28																				
ZZZZZZ			14:29																				
ZZZZZZ			14:30																				
ZZZZZZ			14:31																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 09/30/2014 09:18 End Date: 09/30/2014 16:08

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-149337/1	1		09:18	X																			
LCS 240-149337/2	1	T	09:18	X																			
240-42469-Q-1 DU	1	T	09:19	X																			
CCV 240-149337/6	1		09:25	X																			
240-42475-1	1	T	09:26	X																			
CCV 240-149337/10	1		09:35	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 150388 Batch Start Date: 10/07/14 08:52 Batch Analyst: Matheny, Sarah

Batch Method: Distill/CN Batch End Date: 10/07/14 12:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorineCheck	SulfideCheck	DistillpHCheck	DigestBlockID
MB 240-150388/1		Distill/CN, SM 4500 CN E		50 mL	25 mL	N	N	>12	A
LCS 240-150388/2		Distill/CN, SM 4500 CN E		50 mL	25 mL	N	N	>12	A
240-42411-G-1 MS		Distill/CN, SM 4500 CN E	T	50 mL	25 mL	N	N	>12	A
240-42411-G-1 MSD		Distill/CN, SM 4500 CN E	T	50 mL	25 mL	N	N	>12	A
240-42475-D-1	DSP-1-092914 GRAB	Distill/CN, SM 4500 CN E	T	50 mL	25 mL	N	N	>12	B
CCVH 240-150388/25		Distill/CN, SM 4500 CN E		50 mL	25 mL	N	N	>12	A
CCVL 240-150388/26		Distill/CN, SM 4500 CN E		50 mL	25 mL	N	N	>12	A

Lab Sample ID	Client Sample ID	Method Chain	Basis	DigestBlockPos	WCCN10PPM1 00175	WCCN1PPMMSD2 00193	WCERAPHEN0L 00015		
MB 240-150388/1		Distill/CN, SM 4500 CN E		1					
LCS 240-150388/2		Distill/CN, SM 4500 CN E		2			5 mL		
240-42411-G-1 MS		Distill/CN, SM 4500 CN E	T	6		2 mL			
240-42411-G-1 MSD		Distill/CN, SM 4500 CN E	T	7		2 mL			
240-42475-D-1	DSP-1-092914 GRAB	Distill/CN, SM 4500 CN E	T	8					
CCVH 240-150388/25		Distill/CN, SM 4500 CN E		3	0.5 mL				
CCVL 240-150388/26		Distill/CN, SM 4500 CN E		4	0.125 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 150388 Batch Start Date: 10/07/14 08:52 Batch Analyst: Matheny, Sarah

Batch Method: Distill/CN Batch End Date: 10/07/14 12:10

Batch Notes	
Batch Comment	CN trap1647430
Distillation Temperature	120 Degrees C
Magnesium Chloride Lot Number	1496020
Sodium Hydroxide Reagent ID Number	1701049
Pipette ID	1175936, 1337853
Sulfamic Acid Reagent ID Number	1669676
Sulfuric Acid Reagent ID Number	1687689

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 150489 Batch Start Date: 10/07/14 12:12 Batch Analyst: Matheny, Sarah

Batch Method: SM 4500 CN E Batch End Date: 10/07/14 14:04

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCCN.1CCV1 00175			
CCV 240-150489/1		SM 4500 CN E		2 mL	2 mL	2 mL			
CCB 240-150489/2		SM 4500 CN E		2 mL	2 mL				
MB 240-150388/1-A		SM 4500 CN E		2 mL	2 mL				
CCVL 240-150388/26-A		SM 4500 CN E		2 mL	2 mL				
240-42411-G-1-B MS		SM 4500 CN E	T	2 mL	2 mL				
240-42411-G-1-C MSD		SM 4500 CN E	T	2 mL	2 mL				
CCV 240-150489/11		SM 4500 CN E		2 mL	2 mL	2 mL			
CCB 240-150489/12		SM 4500 CN E		2 mL	2 mL				
240-42475-D-1-A	DSP-1-092914 GRAB	SM 4500 CN E	T	2 mL	2 mL				
CCV 240-150489/23		SM 4500 CN E		2 mL	2 mL	2 mL			
CCB 240-150489/24		SM 4500 CN E		2 mL	2 mL				
CCV 240-150489/37		SM 4500 CN E		2 mL	2 mL	2 mL			
CCB 240-150489/38		SM 4500 CN E		2 mL	2 mL				
LCS 240-150388/2-A		SM 4500 CN E		2 mL	2 mL				
CCVH 240-150388/25-A		SM 4500 CN E		2 mL	2 mL				
CCV 240-150489/44		SM 4500 CN E		2 mL	2 mL	2 mL			
CCB 240-150489/45		SM 4500 CN E		2 mL	2 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 150489 Batch Start Date: 10/07/14 12:12 Batch Analyst: Matheny, Sarah

Batch Method: SM 4500 CN E Batch End Date: 10/07/14 14:04

Batch Notes	
Buffer Reagent ID Number	1060909
Chloramine-T Reagent ID Number	609535
NaOH Lot #	1701049
Pipette ID	1175936, 1337853
Pyridine-Barbituric Acid Reagent ID	1034720-1036508

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149630 Batch Start Date: 10/01/14 16:23 Batch Analyst: Kuhle, Julie

Batch Method: 5220D-1997 Batch End Date: 10/01/14 16:48

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorideScrn	COD LCS 00004	WCCOD1000 00011	
IC 240-149630/1		5220D-1997		2.0 mL	2.0 mL			0.3 mL	
IC 240-149630/2		5220D-1997		2.0 mL	2.0 mL			0.2 mL	
IC 240-149630/3		5220D-1997		2.0 mL	2.0 mL			0.1 mL	
IC 240-149630/4		5220D-1997		2.0 mL	2.0 mL			0.05 mL	
IC 240-149630/5		5220D-1997		2.0 mL	2.0 mL			0.01 mL	
IC 240-149630/6		5220D-1997		2.0 mL	2.0 mL				
ICV 240-149630/7		5220D-1997		2.0 mL	2.0 mL		1 mL		
ICB 240-149630/8		5220D-1997		2.0 mL	2.0 mL				
MB 240-149630/9		5220D-1997		2.0 mL	2.0 mL				
LCS 240-149630/10		5220D-1997		2.0 mL	2.0 mL		1 mL		
CCV 240-149630/19		5220D-1997		2.0 mL	2.0 mL			0.1 mL	
CCB 240-149630/20		5220D-1997		2.0 mL	2.0 mL				
CCV 240-149630/31		5220D-1997		2.0 mL	2.0 mL			0.1 mL	
CCB 240-149630/32		5220D-1997		2.0 mL	2.0 mL				
240-42475-F-1	DSP-1-092914 GRAB	5220D-1997	T	2.0 mL	2.0 mL	>200			
240-42475-F-1 MS	DSP-1-092914 GRAB	5220D-1997	T	1.9 mL	2.0 mL	>200		0.1 mL	
240-42475-F-1 MSD	DSP-1-092914 GRAB	5220D-1997	T	1.9 mL	2.0 mL	>200		0.1 mL	
CCV 240-149630/39		5220D-1997		2.0 mL	2.0 mL			0.1 mL	
CCB 240-149630/40		5220D-1997		2.0 mL	2.0 mL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149630 Batch Start Date: 10/01/14 16:23 Batch Analyst: Kuhle, Julie

Batch Method: 5220D-1997 Batch End Date: 10/01/14 16:48

Batch Notes	
Batch Comment	PIPETS 1337851 927761 377729
Block Digestor Name	WC1 WC2 2C3
Oven, Bath or Block Temperature 1	149
Oven, Bath or Block Temperature 2	151
Oven, Bath or Block Temperature 3	150 Degrees C
Sufficient volume for MS/MSD?	YES
Vial Lot Number	1684074

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149967 Batch Start Date: 10/03/14 08:30 Batch Analyst: Woodward, Bruce

Batch Method: 365.2/365.3/365 Batch End Date: 10/03/14 08:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCPHOS50PPM 00052	WCWIBBYNUTRIE 00021		
CCV 240-149967/8		365.2/365.3/ 365, SM4500 P E-1999		50 mL	50 mL	0.5 mL			
CCB 240-149967/9		365.2/365.3/ 365, SM4500 P E-1999		50 mL	50 mL				
MB 240-149967/10		365.2/365.3/ 365, SM4500 P E-1999		50 mL	50 mL				
LCS 240-149967/11		365.2/365.3/ 365, SM4500 P E-1999		50 mL	50 mL		5 mL		
240-42554-A-1 MS		365.2/365.3/ 365, SM4500 P E-1999	T	50 mL	50 mL	0.5 mL			
240-42554-A-1 MSD		365.2/365.3/ 365, SM4500 P E-1999	T	50 mL	50 mL	0.5 mL			
240-42475-F-1	DSP-1-092914 GRAB	365.2/365.3/ 365, SM4500 P E-1999	T	50 mL	50 mL				

Batch Notes	
Block Digestor Name	Mike
Sodium Hydroxide Reagent ID Number	1634730
Ammonium Persulfate Lot #	821044
Oven, Bath or Block Temperature 1	161 Centigrade
Phenolphthalein Lot #	1658115
Pipette ID	380194
Sulfuric Acid Reagent ID Number	1634731

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 150059 Batch Start Date: 10/03/14 13:35 Batch Analyst: Woodward, Bruce

Batch Method: SM4500 P E-1999 Batch End Date: 10/03/14 15:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CalcMsg			
CCV 240-149967/8-A		SM4500 P E-1999		4 mL	4 mL	OK			
CCB 240-149967/9-A		SM4500 P E-1999		4 mL	4 mL	OK			
MB 240-149967/10-A		SM4500 P E-1999		4 mL	4 mL	OK			
LCS 240-149967/11-A		SM4500 P E-1999		4 mL	4 mL	OK			
240-42554-A-1-B MS		SM4500 P E-1999	T	4 mL	4 mL	OK			
240-42554-A-1-C MSD		SM4500 P E-1999	T	4 mL	4 mL	OK			
240-42475-F-1-D	DSP-1-092914 GRAB	SM4500 P E-1999	T	4 mL	4 mL	OK			
CCV 240-149967/8-A		SM4500 P E-1999		4 mL	4 mL	OK			
CCB 240-149967/9-A		SM4500 P E-1999		4 mL	4 mL	OK			

Batch Notes	
Ammonium Molybdate Reagent ID Number	1637847
Ascorbic Acid Reagent ID Number	1697774
Batch Comment	combined reagent 1697775 made @12:45
Potassium Antimonyl Tartrate Reagent ID	1679987
Pipette ID	377859
Perform Calculation (0=No, 1=Yes)	1
Sulfuric Acid Reagent ID Number	1638086

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149955 Batch Start Date: 10/03/14 09:00 Batch Analyst: Eikelberry, Nicholas

Batch Method: 1664A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	Final pH	GrossWeight	TareWeight	InitialAmount	FinalAmount
MB 240-149955/1		1664A, 1664A		5 SU	0 SU	1000 g	0 g	1000 mL	1000 mL
LCS 240-149955/2		1664A, 1664A		5 SU	0 SU	1000 g	0 g	1000 mL	1000 mL
240-42475-G-1	DSP-1-092914 GRAB	1664A, 1664A	T	0 SU	0 SU	1541.56 g	499.75 g	1042 mL	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	wchemlcs 00077					
MB 240-149955/1		1664A, 1664A							
LCS 240-149955/2		1664A, 1664A		10 mL					
240-42475-G-1	DSP-1-092914 GRAB	1664A, 1664A	T						

Batch Notes	
Acid used for pH adjustment	1:1 HCL
Balance ID	B041
Filter Paper Lot Number	FC007997
Hexane Lot#	+151920000078259GK
Nominal Amount Used	1000 mL
Sufficient volume for MS/MSD?	Y

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149978 Batch Start Date: 10/03/14 09:41 Batch Analyst: Eikelberry, Nicholas

Batch Method: 1664A Batch End Date: 10/03/14 17:02

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	ReceiverTube	HEMWgt1	HEMWgt2	Residue	Residue2
MB 240-149955/1-A		1664A		1000 mL	6.0706 g	6.0715 g	6.0715 g	0.0009 g	0.0009 g
LCS 240-149955/2-A		1664A		1000 mL	6.0378 g	6.0769 g	6.0770 g	0.0391 g	0.0392 g
240-42475-G-1-A	DSP-1-092914 GRAB	1664A	T	1000 mL	6.0263 g	6.0262 g	6.0262 g	-0.0001 g	-0.0001 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight2OK	CalcMsg				
MB 240-149955/1-A		1664A		Pass 0.0005g	HEM OK. SGT-HEM not calculated.				
LCS 240-149955/2-A		1664A		Pass 0.0005g	HEM OK. SGT-HEM not calculated.				
240-42475-G-1-A	DSP-1-092914 GRAB	1664A	T	Pass 0.0005g	HEM OK. SGT-HEM not calculated.				

Batch Notes	
Acid used for pH adjustment	1:1 HCL
Balance ID	B041
Cal check after 2nd Weighing - 1g	1.0000 g
Cal check after 2nd Weighing - 2 mg	0.0020 g
Cal check before 1st Weighing - 1g	1.0000 g
Cal check before 1st Weighing - 2 mg	0.0019 g
Perform Calculation (0=No, 1=Yes)	1

Basis	Basis Description
T	Total/NA

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GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149475 Batch Start Date: 10/01/14 05:57 Batch Analyst: Grossman, Lucas

Batch Method: 5210B-2001 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCBODLCS 00033			
USB 240-149475/1		5210B-2001		300 mL	300 mL				
SCB 240-149475/2		5210B-2001		300 mL	300 mL				
LCS 240-149475/3		5210B-2001		300 mL	300 mL	6 mL			
240-42475-E-1	DSP-1-092914 GRAB	5210B-2001	T	300 mL	300 mL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149746 Batch Start Date: 10/02/14 08:59 Batch Analyst: Sharma, Anjali

Batch Method: SM 2540D Batch End Date: 10/02/14 15:05

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	Weight3
MB 240-149746/1		SM 2540D		V37180 0.1107	0.1107 g	100 mL	0.1105 g	0.1104 g	0 g
LCS 240-149746/2		SM 2540D		V37181 0.1106	0.1106 g	100 mL	0.1204 g	0.1202 g	0 g
240-42538-F-3 DU		SM 2540D	T	V37193 0.1111	0.1111 g	100 mL	0.1164 g	0.1163 g	0 g
240-42475-E-1	DSP-1-092914 GRAB	SM 2540D	T	V37197 0.1115	0.1115 g	100 mL	0.1116 g	0.1116 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightOne%Diff	Residue	Residue2	FinalAmount	WCPHENOVSOLID 00008	
MB 240-149746/1		SM 2540D		PASS <0.5mg g	-0.0002 g	-0.0003 g	100 mL		
LCS 240-149746/2		SM 2540D		PASS <0.5mg g	0.0098 g	0.0096 g	100 mL	100 mL	
240-42538-F-3 DU		SM 2540D	T	PASS <0.5mg g	0.0053 g	0.0052 g	100 mL		
240-42475-E-1	DSP-1-092914 GRAB	SM 2540D	T	PASS <0.5mg g	0.0001 g	0.0001 g	100 mL		

Batch Notes	
Balance ID	B044
Filter Paper Lot Number	1690208
Date samples were placed in the oven	10/2/14 WT1 10:29 WT2 12:40
Oven Temp when samples are put in oven	WT1 104 WT2 105 Celsius
Nominal Amount Used	100 mL
Date samples were removed from oven	10/2/14 WT1 11:29 WT2 13:40
Oven Temp when samples removed from oven	WT1 104 WT2 105 Celsius
Oven ID	006
ID number of the thermometer	24250

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149842 Batch Start Date: 10/02/14 14:50 Batch Analyst: Kuhle, Julie

Batch Method: SM4500Norg_C Batch End Date: 10/02/14 19:20

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	DigestBlockPos	WCNH31000 00029	WCWIBBYNUTRIE 00021	
MB 240-149842/1		SM4500Norg_C, SM4500_NH3_C		25 mL	25 mL	A1			
LCS 240-149842/2		SM4500Norg_C, SM4500_NH3_C		25 mL	25 mL	A2		25 mL	
240-42475-F-1	DSP-1-092914 GRAB	SM4500Norg_C, SM4500_NH3_C	T	25 mL	25 mL	A4			
240-42475-F-1 MS	DSP-1-092914 GRAB	SM4500Norg_C, SM4500_NH3_C	T	25 mL	25 mL	A5	0.5 mL		
240-42475-F-1 MSD	DSP-1-092914 GRAB	SM4500Norg_C, SM4500_NH3_C	T	25 mL	25 mL	A6	0.5 mL		

Batch Notes	
Batch Comment	BEAKERS 163679
Block Digestor Name	CAROL
Digestion Solution Used	1629959
Oven, Bath or Block Temperature 1	201.4
Pipette ID	377828 1337850

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149911 Batch Start Date: 10/03/14 14:20 Batch Analyst: Kuhle, Julie

Batch Method: SM4500_NH3_C Batch End Date: 10/03/14 14:32

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TitrantVolume1			
MB 240-149842/1-A		SM4500_NH3_C		25 mL	25 mL	0.05 mL			
LCS 240-149842/2-A		SM4500_NH3_C		25 mL	25 mL	1.80 mL			
240-42475-F-1-A	DSP-1-092914 GRAB	SM4500_NH3_C	T	25 mL	25 mL	0.20 mL			
240-42475-F-1-B MS	DSP-1-092914 GRAB	SM4500_NH3_C	T	25 mL	25 mL	1.60 mL			
240-42475-F-1-C MSD	DSP-1-092914 GRAB	SM4500_NH3_C	T	25 mL	25 mL	1.85 mL			

Batch Notes	
Batch Comment	pipets 377727 1337853 beakers 163679
Borate Reagent ID Number	boric acid 1621273
Buffer Reagent ID Number	nathiosulfate 1654499
Color Reagent ID Number	1663481
Potassium Persulfate Lot Number	H2SO4 titrant 1655184
Nominal Amount Used	25 mL
Normality	0.0202 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149337 Batch Start Date: 09/30/14 09:18 Batch Analyst: Eikelberry, Nicholas

Batch Method: 4500 H+ B-2000 Batch End Date: 09/30/14 17:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-149337/1		4500 H+ B-2000		10 mL	7.02 SU	19.3 Celsius			pH = Read 1
LCS 240-149337/2		4500 H+ B-2000		10 mL	7.21 SU	19.4 Celsius			pH = Read 1
240-42469-Q-1 DU		4500 H+ B-2000	T	10 mL	7.44 SU	10.9 Celsius	7.45 SU	10.9 Celsius	Read 2 Pass
CCV 240-149337/6		4500 H+ B-2000		10 mL	7.03 SU	16.4 Celsius			pH = Read 1
240-42475-E-1	DSP-1-092914 GRAB	4500 H+ B-2000	T	10 mL	8.06 SU	14.6 Celsius	8.05 SU	14.6 Celsius	Read 2 Pass
CCV 240-149337/10		4500 H+ B-2000		10 mL	7.01 SU	18.9 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00042	WCPHLCS 00009				
CCV 240-149337/1		4500 H+ B-2000		10 mL					
LCS 240-149337/2		4500 H+ B-2000			10 mL				
240-42469-Q-1 DU		4500 H+ B-2000	T						
CCV 240-149337/6		4500 H+ B-2000		10 mL					
240-42475-E-1	DSP-1-092914 GRAB	4500 H+ B-2000	T						
CCV 240-149337/10		4500 H+ B-2000		10 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42475-1

SDG No.:

Batch Number: 149337 Batch Start Date: 09/30/14 09:18 Batch Analyst: Eikelberry, Nicholas

Batch Method: 4500 H+ B-2000 Batch End Date: 09/30/14 17:30

Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1497428
pH Buffer 2 ID	4-1579304
pH Buffer 3 ID	7-1126157
pH Buffer 4 ID	10-1579307
pH Buffer 5 ID	12-1397709
Calibration Date and Time	9/30/14; 9:05am
Electronic Slope	99.3
Instrument ID	Randolph
Probe ID	WCP108
Sufficient volume for sample dup	Y

Basis	Basis Description
T	Total/NA

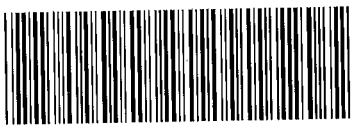
The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-42475 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

Chain of Custody Record

1.8c

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Stu Cameron	Lab PM: John McFadden	Carrier Tracking No(s):	COC No: 180-19478-4921.2
Client Contact: Mr. Stuart Cameron	Phone: (703) 342-8389	E-Mail: John.McFadden@testamericainc.com		Page: Page [redacted] 1 of 1
Company: Tetra Tech, Inc.		Analysis Requested		Job #: 112IC04770

Address: 20251 Century Blvd Suite 200	Due Date Requested:	
City: Germantown	TAT Requested (days): 5 day TAT	
State, Zip: MD, 20874	PO #:	
Phone: (301) 528-3002	WO #:	
Email: Stuart.Cameron@TetraTech.com	Project #: 112IC04770	
Project Name: MRC Block E MPE System O&M	SSOW#:	
Site: Middle River Complex		

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs - TCL	Metals (Cd, Cr, Cu, Pb, Hg, Ni, Ag, Zn)	VOCs - PP (TTO, volatile portion)	SVOCs - PP (With TCDD screen) (TTO, non-volatile)	Pesticides - PP (TTO, non-volatile)	PCBs - PP (TTO, non volatile)	TPH (1664 as SGT-HEM)	pH, BOD, TSS (general chemistry)	COD, TKN, Total P (general chemistry)	Cyanides	PH			Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N	N	N	N	S	N	S	R	N				
~~TR-092914~~	—	—	—																		No Trip blank
DSP-1-092914	9/29/14	1200	G						3				2	1	1	1					
DSP-1-092914	9/29/14	1200	C					2		2	2	2									

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Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	9/29/14 - 1500	Tetra Tech		9/30/14 7:30	TAL Canton
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 42475

Client Tetra Tech Site Name

Cooler Received on 9/30/14 Opened on 9/30/14

Cooler unpacked by:

FedEx (1st) Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +2 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C
IR GUN# 4	(CF -2 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C
IR GUN# 5	(CF 0 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C
IR GUN# 8	(CF 0 °C)	Observed Cooler Temp. 1.8 °C	Corrected Cooler Temp. 1.8 °C

☐ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? (Yes) No NA pH Strip Lot# HC412469
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? Yes (No)

Contacted PM Date by via Verbal Voice Mail Other
Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: DT

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) 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 the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
DSP-1-092914 GRAB	240-42475-D-1	Plastic 250ml - with Sodium Hydro›	>12	_____	_____
DSP-1-092914 GRAB	240-42475-F-1	Plastic 1 liter - Sulfuric Acid	<2	_____	_____
DSP-1-092914 GRAB	240-42475-G-1	Amber Glass 1 liter - Sulfuric Acid	<2	_____	_____
DSP-1-092914 GRAB	240-42475-H-1	Amber Glass 1 liter - Sulfuric Acid	<2	_____	_____
DSP-1-092914 COMP	240-42475-A-2	Plastic 250ml - with Nitric Acid	<2	_____	_____
DSP-1-092914 COMP	240-42475-B-2	Plastic 250ml - with Nitric Acid	<2	_____	_____

10/1/2014 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-42580-1

Job Description: LM MRC Block E MPE System O&M

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
10/2/2014 5:21 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
10/02/2014

cc: Samantha Brenner
Ms. Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: LM MRC Block E MPE System O&M

Report Number: 240-42580-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/2/2014 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TB-100114 (240-42580-1), FRT-1-100114 (240-42580-2), WSP-2-100114 (240-42580-3) and WSP-1-100114 (240-42580-4) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 10/02/2014.

Sample WSP-1-100114 (240-42580-4)[10000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The continuing calibration verification (CCV) associated with batch 149741 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: FRT-1-100114 (240-42580-2), TB-100114 (240-42580-1), WSP-1-100114 (240-42580-4), WSP-2-100114 (240-42580-3).

The continuing calibration verification (CCV) for analytical batch149741 recovered outside control limits (low) for 2-methyl-2-propanol, naphthalene, and 1,2-dibromo-3-chloropropane. An acceptable method reporting limit (MRL) standard was analyzed to verify these compounds were detected at the reporting limit. The batch has been qualified and accepted. The affected samples are: FRT-1-100114 (240-42580-2), TB-100114 (240-42580-1), WSP-1-100114 (240-42580-4), WSP-2-100114 (240-42580-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-42580-1	TB-100114	Water	10/01/2014 0000	10/02/2014 0851
240-42580-2	FRT-1-100114	Water	10/01/2014 1120	10/02/2014 0851
240-42580-3	WSP-2-100114	Water	10/01/2014 1125	10/02/2014 0851
240-42580-4	WSP-1-100114	Water	10/01/2014 1130	10/02/2014 0851

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-42580-3	**WSP-2-100114**					
2-Butanone (MEK)		6.7	J	10	ug/L	8260C
Acetone		44		10	ug/L	8260C
Trichloroethene		1.2		1.0	ug/L	8260C
240-42580-4	**WSP-1-100114**					
Trichloroethene		280000		10000	ug/L	8260C

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL CAN	SW846 8260C	
Purge and Trap	TAL CAN		SW846 5030C

Lab References:

TAL CAN = TestAmerica Canton

Method References:

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Method	Analyst	Analyst ID
SW846 8260C	Williams, Larry	LRW

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Client Sample ID: **TB-100114**

Lab Sample ID: 240-42580-1 Date Sampled: 10/01/2014 0000
Client Matrix: Water Date Received: 10/02/2014 0851

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXR6221.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1250			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1250				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Client Sample ID: **TB-100114**

Lab Sample ID: 240-42580-1 Date Sampled: 10/01/2014 0000
Client Matrix: Water Date Received: 10/02/2014 0851

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXR6221.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1250			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1250				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	84		74 - 120
Dibromofluoromethane (Surr)	109		75 - 121
4-Bromofluorobenzene (Surr)	79		66 - 120
1,2-Dichloroethane-d4 (Surr)	95		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Client Sample ID: **FRT-1-100114**

Lab Sample ID: 240-42580-2 Date Sampled: 10/01/2014 1120
Client Matrix: Water Date Received: 10/02/2014 0851

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXR6222.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1313			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1313				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Client Sample ID: **FRT-1-100114**

Lab Sample ID: 240-42580-2 Date Sampled: 10/01/2014 1120
Client Matrix: Water Date Received: 10/02/2014 0851

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXR6222.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1313			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1313				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	89		74 - 120
Dibromofluoromethane (Surr)	112		75 - 121
4-Bromofluorobenzene (Surr)	83		66 - 120
1,2-Dichloroethane-d4 (Surr)	100		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Client Sample ID: **WSP-2-100114**

Lab Sample ID: 240-42580-3 Date Sampled: 10/01/2014 1125
Client Matrix: Water Date Received: 10/02/2014 0851

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXR6223.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1336			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1336				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	6.7	J	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	44		3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Client Sample ID: **WSP-2-100114**

Lab Sample ID: 240-42580-3 Date Sampled: 10/01/2014 1125
Client Matrix: Water Date Received: 10/02/2014 0851

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXR6223.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1336			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1336				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	1.2		0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	84		74 - 120
Dibromofluoromethane (Surr)	105		75 - 121
4-Bromofluorobenzene (Surr)	83		66 - 120
1,2-Dichloroethane-d4 (Surr)	96		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Client Sample ID: **WSP-1-100114**

Lab Sample ID: 240-42580-4 Date Sampled: 10/01/2014 1130
Client Matrix: Water Date Received: 10/02/2014 0851

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXR6225.D
Dilution:	10000			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1440			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1440				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	2800	U	2800	10000
1,1,1-Trichloroethane	2200	U	2200	10000
1,1,2,2-Tetrachloroethane	2200	U	2200	10000
1,1,2-Trichlorotrifluoroethane	3700	U	3700	10000
1,1-Dichloroethane	2600	U	2600	10000
1,1-Dichloroethene	4500	U	4500	10000
1,1-Dichloropropene	2200	U	2200	10000
1,2,3-Trichlorobenzene	3700	U	3700	10000
1,2,3-Trichloropropane	3000	U	3000	10000
1,2,3-Trimethylbenzene	4700	U	4700	50000
1,2,4-Trichlorobenzene	3200	U	3200	10000
1,2,4-Trimethylbenzene	4100	U	4100	10000
1,2-Dibromo-3-Chloropropane	8200	U	8200	20000
1,2-Dichlorobenzene	1700	U	1700	10000
1,2-Dichloroethane	2000	U	2000	10000
1,2-Dichloropropane	2200	U	2200	10000
1,3-Dichlorobenzene	1700	U	1700	10000
1,3-Dichloropropane	1800	U	1800	10000
1,4-Dichlorobenzene	1600	U	1600	10000
2,2-Dichloropropane	2600	U	2600	10000
2-Butanone (MEK)	41000	U	41000	100000
2-Chloroethyl vinyl ether	12000	U	12000	100000
2-Chlorotoluene	2000	U	2000	10000
2-Hexanone	39000	U	39000	100000
4-Chlorotoluene	2200	U	2200	10000
4-Isopropyltoluene	4300	U	4300	10000
4-Methyl-2-pentanone (MIBK)	36000	U	36000	100000
Acetone	34000	U	34000	100000
Benzene	2400	U	2400	10000
Bromobenzene	1200	U	1200	10000
Bromoform	5600	U	5600	10000
Bromomethane	6300	U	6300	10000
Carbon disulfide	2800	U	2800	10000
Carbon tetrachloride	1700	U	1700	10000
Chlorobenzene	1900	U	1900	10000
Chlorodibromomethane	4300	U	4300	10000
Chloroethane	3300	U	3300	10000
Chloroform	2100	U	2100	10000
Chloromethane	4400	U	4400	10000
cis-1,2-Dichloroethene	2000	U	2000	10000
cis-1,3-Dichloropropene	4600	U	4600	10000
Dibromomethane	1700	U	1700	10000
Bromochloromethane	2500	U	2500	10000
Dichlorodifluoromethane	5000	U	5000	10000
Bromodichloromethane	1500	U	1500	10000
tert-Butyl alcohol	87000	U	87000	500000

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Client Sample ID: **WSP-1-100114**

Lab Sample ID: 240-42580-4 Date Sampled: 10/01/2014 1130
Client Matrix: Water Date Received: 10/02/2014 0851

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXR6225.D
Dilution:	10000			Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1440			Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1440				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	2300	U	2300	10000
Hexachlorobutadiene	3500	U	3500	10000
Diisopropyl ether	1900	U	1900	100000
Isopropylbenzene	3500	U	3500	10000
Methyl tert-butyl ether	1600	U	1600	10000
Methylene Chloride	2800	U	2800	10000
m-Xylene & p-Xylene	2200	U	2200	20000
Naphthalene	4500	U	4500	10000
n-Butylbenzene	2200	U	2200	10000
N-Propylbenzene	4000	U	4000	10000
o-Xylene	2100	U	2100	10000
sec-Butylbenzene	4800	U	4800	10000
Styrene	4500	U	4500	10000
Tert-amyl methyl ether	1600	U	1600	50000
Ethyl tert-butyl ether	2000	U	2000	50000
Tetrachloroethene	2000	U	2000	10000
Toluene	2200	U	2200	10000
trans-1,2-Dichloroethene	2600	U	2600	10000
trans-1,3-Dichloropropene	5600	U	5600	10000
Trichloroethene	280000		1500	10000
Trichlorofluoromethane	4900	U	4900	10000
Vinyl acetate	4100	U	4100	20000
Vinyl chloride	2900	U	2900	10000
Xylenes, Total	4300	U	4300	20000
tert-Butylbenzene	4100	U	4100	10000
1,2-Dibromoethane	1900	U	1900	10000

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	81		74 - 120
Dibromofluoromethane (Surr)	107		75 - 121
4-Bromofluorobenzene (Surr)	75		66 - 120
1,2-Dichloroethane-d4 (Surr)	94		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-42580-1	TB-100114	109	95	84	79
240-42580-2	FRT-1-100114	112	100	89	83
240-42580-3	WSP-2-100114	105	96	84	83
240-42580-4	WSP-1-100114	107	94	81	75
MB 240-149741/7		106	94	83	79
LCS 240-149741/4		100	82	97	100

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Method Blank - Batch: 240-149741

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-149741/7	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXR6220.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1228	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1228				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Method Blank - Batch: 240-149741

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-149741/7	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXR6220.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1228	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1228				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
tert-Butyl alcohol	8.7	U	8.7	50
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	83	74 - 120
Dibromofluoromethane (Surr)	106	75 - 121
4-Bromofluorobenzene (Surr)	79	66 - 120
1,2-Dichloroethane-d4 (Surr)	94	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Lab Control Sample - Batch: 240-149741

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-149741/4	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXR6217.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1119	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1119				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	10.8	108	72 - 120	
1,1,1-Trichloroethane	10.0	11.4	114	74 - 120	
1,1,2,2-Tetrachloroethane	10.0	8.66	87	68 - 120	
1,1,2-Trichlorotrifluoroethane	10.0	10.6	106	74 - 151	
1,1-Dichloroethane	10.0	11.3	113	80 - 120	
1,1-Dichloroethene	10.0	10.4	104	78 - 131	
1,1-Dichloropropene	10.0	11.4	114	80 - 120	
1,2,3-Trichlorobenzene	10.0	8.35	83	54 - 126	
1,2,3-Trichloropropane	10.0	8.24	82	73 - 129	
1,2,4-Trichlorobenzene	10.0	9.81	98	48 - 135	
1,2,4-Trimethylbenzene	10.0	10.8	108	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	7.81	78	42 - 136	
1,2-Dichlorobenzene	10.0	9.76	98	80 - 120	
1,2-Dichloroethane	10.0	9.70	97	71 - 127	
1,2-Dichloropropane	10.0	10.9	109	80 - 120	
1,3-Dichlorobenzene	10.0	9.83	98	80 - 120	
1,3-Dichloropropane	10.0	9.24	92	79 - 120	
1,4-Dichlorobenzene	10.0	10.1	101	80 - 120	
2,2-Dichloropropane	10.0	12.7	127	50 - 129	
2-Butanone (MEK)	20.0	16.8	84	60 - 126	
2-Chloroethyl vinyl ether	12.0	10.0	84	52 - 131	
2-Chlorotoluene	10.0	10.3	103	76 - 120	
2-Hexanone	20.0	18.7	94	55 - 133	
4-Chlorotoluene	10.0	10.2	102	77 - 120	
4-Isopropyltoluene	10.0	10.7	107	74 - 120	
4-Methyl-2-pentanone (MIBK)	20.0	18.8	94	63 - 128	
Acetone	20.0	16.1	81	43 - 136	
Benzene	10.0	11.3	113	80 - 120	
Bromobenzene	10.0	9.74	97	76 - 120	
Bromoform	10.0	8.93	89	40 - 131	
Bromomethane	10.0	8.94	89	11 - 185	
Carbon disulfide	10.0	12.8	128	62 - 142	
Carbon tetrachloride	10.0	10.4	104	66 - 128	
Chlorobenzene	10.0	10.3	103	80 - 120	
Chlorodibromomethane	10.0	9.60	96	64 - 120	
Chloroethane	10.0	8.76	88	25 - 153	
Chloroform	10.0	10.4	104	79 - 120	
Chloromethane	10.0	11.8	118	44 - 126	
cis-1,2-Dichloroethene	10.0	11.0	110	80 - 120	
cis-1,3-Dichloropropene	10.0	10.9	109	61 - 120	
Dibromomethane	10.0	9.84	98	80 - 120	
Bromochloromethane	10.0	11.0	110	77 - 120	
Dichlorodifluoromethane	10.0	7.92	79	19 - 129	
Bromodichloromethane	10.0	10.2	102	72 - 121	
tert-Butyl alcohol	100	83.8	84	70 - 130	
Ethylbenzene	10.0	10.7	107	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Lab Control Sample - Batch: 240-149741

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-149741/4	Analysis Batch:	240-149741	Instrument ID:	A3UX17
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXR6217.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/02/2014 1119	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/02/2014 1119				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorobutadiene	10.0	10.2	102	36 - 134	
Isopropylbenzene	10.0	10.8	108	75 - 120	
Methyl tert-butyl ether	10.0	9.47	95	52 - 144	
Methylene Chloride	10.0	12.1	121	66 - 131	
m-Xylene & p-Xylene	10.0	10.7	107	80 - 120	
Naphthalene	10.0	7.15	71	32 - 141	
n-Butylbenzene	10.0	10.6	106	66 - 125	
N-Propylbenzene	10.0	10.7	107	74 - 121	
o-Xylene	10.0	11.2	112	80 - 120	
sec-Butylbenzene	10.0	10.6	106	70 - 120	
Styrene	10.0	11.7	117	79 - 120	
Tetrachloroethene	10.0	10.7	107	79 - 120	
Toluene	10.0	10.6	106	80 - 120	
trans-1,2-Dichloroethene	10.0	11.2	112	80 - 120	
trans-1,3-Dichloropropene	10.0	9.47	95	58 - 120	
Trichloroethene	10.0	10.6	106	76 - 120	
Trichlorofluoromethane	10.0	8.40	84	49 - 157	
Vinyl acetate	8.00	6.67	83	46 - 161	
Vinyl chloride	10.0	10.0	100	53 - 127	
Xylenes, Total	20.0	21.9	110	80 - 120	
tert-Butylbenzene	10.0	10.5	105	71 - 120	
1,2-Dibromoethane	10.0	9.20	92	79 - 120	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	97	74 - 120
Dibromofluoromethane (Surr)	100	75 - 121
4-Bromofluorobenzene (Surr)	100	66 - 120
1,2-Dichloroethane-d4 (Surr)	82	63 - 129

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Tetra Tech, Inc. Job Number: 240-42580-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-149741					
LCS 240-149741/4	Lab Control Sample	T	Water	8260C	
MB 240-149741/7	Method Blank	T	Water	8260C	
240-42580-1	TB-100114	T	Water	8260C	
240-42580-2	FRT-1-100114	T	Water	8260C	
240-42580-3	WSP-2-100114	T	Water	8260C	
240-42580-4	WSP-1-100114	T	Water	8260C	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Laboratory Chronicle

Lab ID: 240-42580-1 **Client ID:** TB-100114

Sample Date/Time: 10/01/2014 00:00 Received Date/Time: 10/02/2014 08:51

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42580-A-1		240-149741		10/02/2014 12:50	1	TAL CAN	LRW
A:8260C	240-42580-A-1		240-149741		10/02/2014 12:50	1	TAL CAN	LRW

Lab ID: 240-42580-2 **Client ID:** FRT-1-100114

Sample Date/Time: 10/01/2014 11:20 Received Date/Time: 10/02/2014 08:51

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42580-A-2		240-149741		10/02/2014 13:13	1	TAL CAN	LRW
A:8260C	240-42580-A-2		240-149741		10/02/2014 13:13	1	TAL CAN	LRW

Lab ID: 240-42580-3 **Client ID:** WSP-2-100114

Sample Date/Time: 10/01/2014 11:25 Received Date/Time: 10/02/2014 08:51

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42580-B-3		240-149741		10/02/2014 13:36	1	TAL CAN	LRW
A:8260C	240-42580-B-3		240-149741		10/02/2014 13:36	1	TAL CAN	LRW

Lab ID: 240-42580-4 **Client ID:** WSP-1-100114

Sample Date/Time: 10/01/2014 11:30 Received Date/Time: 10/02/2014 08:51

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42580-C-4		240-149741		10/02/2014 14:40	10000	TAL CAN	LRW
A:8260C	240-42580-C-4		240-149741		10/02/2014 14:40	10000	TAL CAN	LRW

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 240-149741/7		240-149741		10/02/2014 12:28	1	TAL CAN	LRW
A:8260C	MB 240-149741/7		240-149741		10/02/2014 12:28	1	TAL CAN	LRW

Client: Tetra Tech, Inc. Job Number: 240-42580-1

Laboratory Chronicle

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 240-149741/4		240-149741		10/02/2014 11:19	1	TAL CAN	LRW
A:8260C	LCS 240-149741/4		240-149741		10/02/2014 11:19	1	TAL CAN	LRW

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm50ICVss_00009	09/10/14	09/03/14	MEOH, Lot na	2 mL	vm50icvss_stk_00001	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50icvss_stk_00001	09/14/14	03/14/14	MEOH, Lot 0000049909	50 mL	VMstm530_00021	1 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VMstm530_00021	05/31/15	Ultra Scientific, Lot CJ-1280			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VM50IS_00042	09/30/14	06/24/14	MEOH, Lot 38701	50 mL	vm30241_00001	1 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18	restek, Lot A093261			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00168	09/10/14	09/03/14	MEOH, Lot na	2 mL	vm50ss_stk_00061	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00061	01/05/15	07/07/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00017	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00061	01/05/15	07/07/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00017	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00064	09/09/14	09/02/14	MEOH, Lot na	3 mL	VMACROLSTD_00016	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00016	10/02/14	09/02/14	MEOH, Lot +182820000062345JF	20 mL	VM568720_00002	0.25 mL	Acrolein	250 ug/mL
..VM568720_00002	10/31/14	restek, Lot A0104246			(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASA9W_00026	09/09/14	09/02/14	MEOH, Lot NA	2 mL	VMFASA9_00003	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMFASA9_00003	02/05/15	08/05/14	MEOH, Lot +182820000062345JF	100 mL	vm568722S_00002	2.5 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723S_00001	2.5 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..vm568722S_00002	06/30/15		restek, Lot A0100258		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723S_00001	04/30/16		restek, Lot A0102749		(Purchased Reagent)		Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMFASGW_00054	09/15/14	09/08/14	MEOH, Lot NA	2 mL	VMFASG_00019	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00019	10/04/14	09/04/14	MEOH, Lot 0000062345	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00057	10/04/14	09/30/14	MEOH, Lot NA	2 mL	VMFASG_00019	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00019	10/04/14	09/04/14	MEOH, Lot 0000062345	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00050	09/15/14	09/08/14	MEOH, Lot NA	2 mL	VMRFASP_00010	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00010	09/29/14	08/29/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00005	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00009	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00007	1 mL	Vinyl acetate	40 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00009	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00007	10/31/14		Restek, Lot A0102474		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMFASPW_00054	10/07/14	09/30/14	MEOH, Lot NA	2 mL	VMRFASP_00011	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00011	10/31/14	09/30/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00005	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00011	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00007	1 mL	Vinyl acetate	40 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00011	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00007	10/31/14		Restek, Lot A0102474		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRA9W_00072	09/15/14	09/08/14	MEOH, Lot NA	1 mL	VMRA9_00010	1 mL	Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00010	10/29/14	07/29/14	MEOH, Lot 134079	50 mL	VM567648_00014	1.25 mL	Cyclohexanone	500 ug/mL
					vm567719_00020	2.5 mL	2-Methylnaphthalene	100 ug/mL
					vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
					VM568723_00001	1.25 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..VM567648_00014	02/29/16	Restek, Lot A093361			(Purchased Reagent)		Cyclohexanone	20000 ug/mL
..vm567719_00020	02/28/15	Restek, Lot A093359			(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
..vm568722_00002	06/30/15	restek, Lot A0100262			(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							1-Chlorohexane	2000 ug/mL
							2-Chloro-1,3-butadiene	2000 ug/mL
							2-Nitropropane	4000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL
..VM568723_00001	12/31/15	restek, Lot A099930			(Purchased Reagent)		Acetonitrile	20000 ug/mL
							Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRGAS_00068	09/09/14	09/02/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRGAS_00071	10/03/14	09/26/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRPRIMW_00078	09/09/14	09/02/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00085	10/09/14	10/02/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-42580-1
Project/Site: LM MRC Block E MPE System O&M

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

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-100114	240-42580-1	109	95	84	79
FRT-1-100114	240-42580-2	112	100	89	83
WSP-2-100114	240-42580-3	105	96	84	83
WSP-1-100114	240-42580-4	107	94	81	75
	MB 240-149741/7	106	94	83	79
	LCS 240-149741/4	100	82	97	100

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXR6217.D

Lab ID: LCS 240-149741/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	10.8	108	72-120	
1,1,1-Trichloroethane	10.0	11.4	114	74-120	
1,1,2,2-Tetrachloroethane	10.0	8.66	87	68-120	
1,1,2-Trichlorotrifluoroethane	10.0	10.6	106	74-151	
1,1-Dichloroethane	10.0	11.3	113	80-120	
1,1-Dichloroethene	10.0	10.4	104	78-131	
1,1-Dichloropropene	10.0	11.4	114	80-120	
1,2,3-Trichlorobenzene	10.0	8.35	83	54-126	
1,2,3-Trichloropropane	10.0	8.24	82	73-129	
1,2,4-Trichlorobenzene	10.0	9.81	98	48-135	
1,2,4-Trimethylbenzene	10.0	10.8	108	76-120	
1,2-Dibromo-3-Chloropropane	10.0	7.81	78	42-136	
1,2-Dichlorobenzene	10.0	9.76	98	80-120	
1,2-Dichloroethane	10.0	9.70	97	71-127	
1,2-Dichloropropane	10.0	10.9	109	80-120	
1,3-Dichlorobenzene	10.0	9.83	98	80-120	
1,3-Dichloropropane	10.0	9.24	92	79-120	
1,4-Dichlorobenzene	10.0	10.1	101	80-120	
2,2-Dichloropropane	10.0	12.7	127	50-129	
2-Butanone (MEK)	20.0	16.8	84	60-126	
2-Chloroethyl vinyl ether	12.0	10.0	84	52-131	
2-Chlorotoluene	10.0	10.3	103	76-120	
2-Hexanone	20.0	18.7	94	55-133	
4-Chlorotoluene	10.0	10.2	102	77-120	
4-Isopropyltoluene	10.0	10.7	107	74-120	
4-Methyl-2-pentanone (MIBK)	20.0	18.8	94	63-128	
Acetone	20.0	16.1	81	43-136	
Benzene	10.0	11.3	113	80-120	
Bromobenzene	10.0	9.74	97	76-120	
Bromoform	10.0	8.93	89	40-131	
Bromomethane	10.0	8.94	89	11-185	
Carbon disulfide	10.0	12.8	128	62-142	
Carbon tetrachloride	10.0	10.4	104	66-128	
Chlorobenzene	10.0	10.3	103	80-120	
Chlorodibromomethane	10.0	9.60	96	64-120	
Chloroethane	10.0	8.76	88	25-153	
Chloroform	10.0	10.4	104	79-120	
Chloromethane	10.0	11.8	118	44-126	
cis-1,2-Dichloroethene	10.0	11.0	110	80-120	
cis-1,3-Dichloropropene	10.0	10.9	109	61-120	
Dibromomethane	10.0	9.84	98	80-120	
Bromochloromethane	10.0	11.0	110	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXR6217.D

Lab ID: LCS 240-149741/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	7.92	79	19-129	
Bromodichloromethane	10.0	10.2	102	72-121	
tert-Butyl alcohol	100	83.8	84	70-130	
Ethylbenzene	10.0	10.7	107	80-120	
Hexachlorobutadiene	10.0	10.2	102	36-134	
Isopropylbenzene	10.0	10.8	108	75-120	
Methyl tert-butyl ether	10.0	9.47	95	52-144	
Methylene Chloride	10.0	12.1	121	66-131	
m-Xylene & p-Xylene	10.0	10.7	107	80-120	
Naphthalene	10.0	7.15	71	32-141	
n-Butylbenzene	10.0	10.6	106	66-125	
N-Propylbenzene	10.0	10.7	107	74-121	
o-Xylene	10.0	11.2	112	80-120	
sec-Butylbenzene	10.0	10.6	106	70-120	
Styrene	10.0	11.7	117	79-120	
Tetrachloroethene	10.0	10.7	107	79-120	
Toluene	10.0	10.6	106	80-120	
trans-1,2-Dichloroethene	10.0	11.2	112	80-120	
trans-1,3-Dichloropropene	10.0	9.47	95	58-120	
Trichloroethene	10.0	10.6	106	76-120	
Trichlorofluoromethane	10.0	8.40	84	49-157	
Vinyl acetate	8.00	6.67	83	46-161	
Vinyl chloride	10.0	10.0	100	53-127	
Xylenes, Total	20.0	21.9	110	80-120	
tert-Butylbenzene	10.0	10.5	105	71-120	
1,2-Dibromoethane	10.0	9.20	92	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Lab File ID: UXR6220.D Lab Sample ID: MB 240-149741/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX17 Date Analyzed: 10/02/2014 12:28

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 240-149741/4	UXR6217.D	10/02/2014 11:19
TB-100114	240-42580-1	UXR6221.D	10/02/2014 12:50
FRT-1-100114	240-42580-2	UXR6222.D	10/02/2014 13:13
WSP-2-100114	240-42580-3	UXR6223.D	10/02/2014 13:36
WSP-1-100114	240-42580-4	UXR6225.D	10/02/2014 14:40

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Lab File ID: BFB262.D BFB Injection Date: 09/09/2014

Instrument ID: A3UX17 BFB Injection Time: 14:08

Analysis Batch No.: 146190

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.9	
75	30.0 - 60.0 % of mass 95	52.9	
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	0.6	(0.9)1
174	50.0 - 120.00 % of mass 95	71.6	
175	5.0 - 9.0 % of mass 174	5.4	(7.6)1
176	95.0 - 101.0 % of mass 174	71.5	(99.8)1
177	5.0 - 9.0 % of mass 176	4.9	(6.9)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 240-146190/2	UXR5644.D	09/09/2014	14:46
	STD8260 240-146190/3	UXR5645.D	09/09/2014	15:09
	STD8260 240-146190/4	UXR5646.D	09/09/2014	15:32
	STD8260 240-146190/5	UXR5647.D	09/09/2014	15:54
	STD8260 240-146190/6	UXR5648.D	09/09/2014	16:17
	STD8260 240-146190/7	UXR5649.D	09/09/2014	16:40
	STDA9 240-146190/8	UXR5650.D	09/09/2014	17:02
	STDA9 240-146190/9	UXR5651.D	09/09/2014	17:25
	STDA9 240-146190/10	UXR5652.D	09/09/2014	17:47
	STDA9 240-146190/11	UXR5653.D	09/09/2014	18:10
	STDA9 240-146190/12	UXR5654.D	09/09/2014	18:33
	STDA9 240-146190/13	UXR5655.D	09/09/2014	18:55
	ICV 240-146190/14	UXR5656.D	09/09/2014	19:18
	ICV 240-146190/15	UXR5657.D	09/09/2014	19:40

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Lab File ID: BFB303.D BFB Injection Date: 10/02/2014

Instrument ID: A3UX17 BFB Injection Time: 10:05

Analysis Batch No.: 149741

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	46.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.5	(0.6)1
174	50.0 - 120.00 % of mass 95	85.7	
175	5.0 - 9.0 % of mass 174	5.8	(6.7)1
176	95.0 - 101.0 % of mass 174	82.1	(95.8)1
177	5.0 - 9.0 % of mass 176	5.2	(6.3)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 240-149741/2	UXR6215.D	10/02/2014	10:34
	LCS 240-149741/4	UXR6217.D	10/02/2014	11:19
	MB 240-149741/7	UXR6220.D	10/02/2014	12:28
TB-100114	240-42580-1	UXR6221.D	10/02/2014	12:50
FRT-1-100114	240-42580-2	UXR6222.D	10/02/2014	13:13
WSP-2-100114	240-42580-3	UXR6223.D	10/02/2014	13:36
WSP-1-100114	240-42580-4	UXR6225.D	10/02/2014	14:40

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Sample No.: STD8260 240-146190/4 Date Analyzed: 09/09/2014 15:32

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXR5646.D Heated Purge: (Y/N) N

Calibration ID: 24156

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2145894	5.78	1586813	8.48	960418	10.72
UPPER LIMIT		4291788	6.28	3173626	8.98	1920836	11.22
LOWER LIMIT		1072947	5.28	793407	7.98	480209	10.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-146190/14		2042473	5.76	1530424	8.48	933650	10.72
ICV 240-146190/15		1887084	5.78	1471512	8.48	711443	10.72
CCVIS 240-149741/2		2040704	5.76	1508451	8.48	944965	10.72

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 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Sample No.: CCVIS 240-149741/2 Date Analyzed: 10/02/2014 10:34

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXR6215.D Heated Purge: (Y/N) N

Calibration ID: 24158

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2040704	5.76	1508451	8.48	944965	10.72
UPPER LIMIT		4081408	6.26	3016902	8.98	1889930	11.22
LOWER LIMIT		1020352	5.26	754226	7.98	472483	10.22
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-149741/4		2130204	5.76	1605974	8.48	1012620	10.72
MB 240-149741/7		1759765	5.76	1451956	8.48	768448	10.72
240-42580-1	TB-100114	1754543	5.76	1440752	8.48	773780	10.72
240-42580-2	FRT-1-100114	1765694	5.76	1437639	8.48	764452	10.72
240-42580-3	WSP-2-100114	1756677	5.76	1418027	8.48	794821	10.72
240-42580-4	WSP-1-100114	1738629	5.76	1449442	8.48	762282	10.72

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: TB-100114 | Lab Sample ID: 240-42580-1

Matrix: Water | Lab File ID: UXR6221.D

Analysis Method: 8260C | Date Collected: 10/01/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 12:50

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.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: TB-100114 | Lab Sample ID: 240-42580-1

Matrix: Water | Lab File ID: UXR6221.D

Analysis Method: 8260C | Date Collected: 10/01/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 12:50

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.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Client Sample ID: TB-100114 Lab Sample ID: 240-42580-1

Matrix: Water Lab File ID: UXR6221.D

Analysis Method: 8260C Date Collected: 10/01/2014 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 12:50

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.: 149741 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		74-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-121
460-00-4	4-Bromofluorobenzene (Surr)	79		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: FRT-1-100114 | Lab Sample ID: 240-42580-2

Matrix: Water | Lab File ID: UXR6222.D

Analysis Method: 8260C | Date Collected: 10/01/2014 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 13:13

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.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: FRT-1-100114 | Lab Sample ID: 240-42580-2

Matrix: Water | Lab File ID: UXR6222.D

Analysis Method: 8260C | Date Collected: 10/01/2014 11:20

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 13:13

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.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Client Sample ID: FRT-1-100114 Lab Sample ID: 240-42580-2

Matrix: Water Lab File ID: UXR6222.D

Analysis Method: 8260C Date Collected: 10/01/2014 11:20

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 13:13

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.: 149741 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		74-120
1868-53-7	Dibromofluoromethane (Surr)	112		75-121
460-00-4	4-Bromofluorobenzene (Surr)	83		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: WSP-2-100114 | Lab Sample ID: 240-42580-3

Matrix: Water | Lab File ID: UXR6223.D

Analysis Method: 8260C | Date Collected: 10/01/2014 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 13:36

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.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	6.7	J	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	44		10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: WSP-2-100114 | Lab Sample ID: 240-42580-3

Matrix: Water | Lab File ID: UXR6223.D

Analysis Method: 8260C | Date Collected: 10/01/2014 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 13:36

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.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	1.2		1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Client Sample ID: WSP-2-100114 Lab Sample ID: 240-42580-3

Matrix: Water Lab File ID: UXR6223.D

Analysis Method: 8260C Date Collected: 10/01/2014 11:25

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 13:36

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.: 149741 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		74-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-121
460-00-4	4-Bromofluorobenzene (Surr)	83		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: WSP-1-100114 | Lab Sample ID: 240-42580-4

Matrix: Water | Lab File ID: UXR6225.D

Analysis Method: 8260C | Date Collected: 10/01/2014 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 14:40

Soil Aliquot Vol: | Dilution Factor: 10000

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

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

Analysis Batch No.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	2800	U	10000	2800
71-55-6	1,1,1-Trichloroethane	2200	U	10000	2200
79-34-5	1,1,2,2-Tetrachloroethane	2200	U	10000	2200
76-13-1	1,1,2-Trichlorotrifluoroethane	3700	U	10000	3700
75-34-3	1,1-Dichloroethane	2600	U	10000	2600
75-35-4	1,1-Dichloroethene	4500	U	10000	4500
563-58-6	1,1-Dichloropropene	2200	U	10000	2200
87-61-6	1,2,3-Trichlorobenzene	3700	U	10000	3700
96-18-4	1,2,3-Trichloropropane	3000	U	10000	3000
526-73-8	1,2,3-Trimethylbenzene	4700	U	50000	4700
120-82-1	1,2,4-Trichlorobenzene	3200	U	10000	3200
95-63-6	1,2,4-Trimethylbenzene	4100	U	10000	4100
96-12-8	1,2-Dibromo-3-Chloropropane	8200	U	20000	8200
95-50-1	1,2-Dichlorobenzene	1700	U	10000	1700
107-06-2	1,2-Dichloroethane	2000	U	10000	2000
78-87-5	1,2-Dichloropropane	2200	U	10000	2200
541-73-1	1,3-Dichlorobenzene	1700	U	10000	1700
142-28-9	1,3-Dichloropropane	1800	U	10000	1800
106-46-7	1,4-Dichlorobenzene	1600	U	10000	1600
594-20-7	2,2-Dichloropropane	2600	U	10000	2600
78-93-3	2-Butanone (MEK)	41000	U	100000	41000
110-75-8	2-Chloroethyl vinyl ether	12000	U	100000	12000
95-49-8	2-Chlorotoluene	2000	U	10000	2000
591-78-6	2-Hexanone	39000	U	100000	39000
106-43-4	4-Chlorotoluene	2200	U	10000	2200
99-87-6	4-Isopropyltoluene	4300	U	10000	4300
108-10-1	4-Methyl-2-pentanone (MIBK)	36000	U	100000	36000
67-64-1	Acetone	34000	U	100000	34000
71-43-2	Benzene	2400	U	10000	2400
108-86-1	Bromobenzene	1200	U	10000	1200
75-25-2	Bromoform	5600	U	10000	5600
74-83-9	Bromomethane	6300	U	10000	6300
75-15-0	Carbon disulfide	2800	U	10000	2800
56-23-5	Carbon tetrachloride	1700	U	10000	1700
108-90-7	Chlorobenzene	1900	U	10000	1900
124-48-1	Chlorodibromomethane	4300	U	10000	4300

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: WSP-1-100114 | Lab Sample ID: 240-42580-4

Matrix: Water | Lab File ID: UXR6225.D

Analysis Method: 8260C | Date Collected: 10/01/2014 11:30

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 14:40

Soil Aliquot Vol: | Dilution Factor: 10000

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

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

Analysis Batch No.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	3300	U	10000	3300
67-66-3	Chloroform	2100	U	10000	2100
74-87-3	Chloromethane	4400	U	10000	4400
156-59-2	cis-1,2-Dichloroethene	2000	U	10000	2000
10061-01-5	cis-1,3-Dichloropropene	4600	U	10000	4600
74-95-3	Dibromomethane	1700	U	10000	1700
74-97-5	Bromochloromethane	2500	U	10000	2500
75-71-8	Dichlorodifluoromethane	5000	U	10000	5000
75-27-4	Bromodichloromethane	1500	U	10000	1500
75-65-0	tert-Butyl alcohol	87000	U	500000	87000
100-41-4	Ethylbenzene	2300	U	10000	2300
87-68-3	Hexachlorobutadiene	3500	U	10000	3500
108-20-3	Diisopropyl ether	1900	U	100000	1900
98-82-8	Isopropylbenzene	3500	U	10000	3500
1634-04-4	Methyl tert-butyl ether	1600	U	10000	1600
75-09-2	Methylene Chloride	2800	U	10000	2800
179601-23-1	m-Xylene & p-Xylene	2200	U	20000	2200
91-20-3	Naphthalene	4500	U	10000	4500
104-51-8	n-Butylbenzene	2200	U	10000	2200
103-65-1	N-Propylbenzene	4000	U	10000	4000
95-47-6	o-Xylene	2100	U	10000	2100
135-98-8	sec-Butylbenzene	4800	U	10000	4800
100-42-5	Styrene	4500	U	10000	4500
994-05-8	Tert-amyl methyl ether	1600	U	50000	1600
637-92-3	Ethyl tert-butyl ether	2000	U	50000	2000
127-18-4	Tetrachloroethene	2000	U	10000	2000
108-88-3	Toluene	2200	U	10000	2200
156-60-5	trans-1,2-Dichloroethene	2600	U	10000	2600
10061-02-6	trans-1,3-Dichloropropene	5600	U	10000	5600
79-01-6	Trichloroethene	280000		10000	1500
75-69-4	Trichlorofluoromethane	4900	U	10000	4900
108-05-4	Vinyl acetate	4100	U	20000	4100
75-01-4	Vinyl chloride	2900	U	10000	2900
1330-20-7	Xylenes, Total	4300	U	20000	4300
98-06-6	tert-Butylbenzene	4100	U	10000	4100
106-93-4	1,2-Dibromoethane	1900	U	10000	1900

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Client Sample ID: WSP-1-100114 Lab Sample ID: 240-42580-4

Matrix: Water Lab File ID: UXR6225.D

Analysis Method: 8260C Date Collected: 10/01/2014 11:30

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 14:40

Soil Aliquot Vol: Dilution Factor: 10000

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 149741 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	81		74-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-121
460-00-4	4-Bromofluorobenzene (Surr)	75		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		63-129

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 14:46 Calibration End Date: 09/09/2014 16:40 Calibration ID: 24156

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-146190/7	UXR5649.D
Level 2	STD8260 240-146190/6	UXR5648.D
Level 3	STD8260 240-146190/5	UXR5647.D
Level 4	STD8260 240-146190/4	UXR5646.D
Level 5	STD8260 240-146190/3	UXR5645.D
Level 6	STD8260 240-146190/2	UXR5644.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	0.3617 0.3419	0.3462	0.3201	0.2651	0.2845	Ave		0.3199			0.1000	12.0		15.0			
Chloromethane	0.4766 0.3197	0.3386	0.3348	0.3454	0.3372	Lin1	0.0715	0.3245			0.1000				0.9990		0.9900
Vinyl chloride	0.5593 0.3622	0.3740	0.3656	0.3624	0.3647	Lin1	0.0831	0.3582			0.1000				1.0000		0.9900
Bromomethane	0.2151 0.1651	0.1413	0.1443	0.1528	0.1644	Lin1	0.0053	0.1613			0.0500				0.9970		0.9900
Chloroethane	0.3328 0.2036	0.1941	0.1816	0.1935	0.1992	Lin1	0.0427	0.1970							0.9970		0.9900
Dichlorofluoromethane	0.4105 0.4030	0.2920	0.3232	0.3544	0.3993	Ave		0.3637				13.0		15.0			
Trichlorofluoromethane	0.3554 0.3631	0.3400	0.3264	0.3028	0.3223	Ave		0.3350			0.1000	6.7		15.0			
Ethyl ether	0.3310 0.2157	0.2179	0.2054	0.2140	0.2180	Lin1	0.0434	0.2129							0.9990		0.9900
Acrolein	0.0293 0.0220	0.0208	0.0205	0.0217	0.0214	Ave		0.0226				15.0		15.0			
1,1-Dichloroethene	0.3671 0.2710	0.2600	0.2464	0.2501	0.2572	Lin1	0.0294	0.2612			0.1000				0.9980		0.9900
1,1,2-Trichlorotrifluoroethane	0.2587 0.2425	0.2591	0.2297	0.1907	0.1922	Ave		0.2288			0.0500	14.0		15.0			
Acetone	0.1821 0.0698	0.0957	0.0772	0.0744	0.0701	Lin1	0.1122	0.0680			0.0500				1.0000		0.9900
Iodomethane	0.4940 0.3505	0.3483	0.3277	0.3393	0.3535	Lin1	0.0489	0.3454							0.9990		0.9900
Carbon disulfide	0.7787 0.7035	0.5560	0.5643	0.5989	0.6370	Ave		0.6397			0.1000	14.0		15.0			
3-Chloro-1-propene	0.1367 0.1369	0.1134	0.1127	0.1227	0.1334	Ave		0.1260				9.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 14:46 Calibration End Date: 09/09/2014 16:40 Calibration ID: 24156

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								
Methyl acetate	0.2232 0.1708	0.1648	0.1609	0.1644	0.1684	Ave		0.1754			0.1000	14.0		15.0			
Methylene Chloride	0.8581 0.2582	0.3798	0.2874	0.2851	0.2697	Lin1	0.2892	0.2511			0.1000				0.9990		0.9900
tert-Butyl alcohol	0.0166 0.0112	0.0120	0.0107	0.0110	0.0113	Lin1	0.0227	0.0111							0.9990		0.9900
Acrylonitrile	0.1171 0.0925	0.0865	0.0839	0.0878	0.0904	Ave		0.0930				13.0		15.0			
Methyl tert-butyl ether	0.6996 0.6144	0.5508	0.5340	0.5893	0.6098	Ave		0.5997			0.1000	9.8		15.0			
trans-1,2-Dichloroethene	0.3658 0.2742	0.2786	0.2576	0.2602	0.2716	Ave		0.2847			0.1000	14.0		15.0			
Hexane	0.0709 0.0872	0.0831	0.0809	0.0621	0.0640	Ave		0.0747				14.0		15.0			
1,1-Dichloroethane	0.5677 0.4537	0.4610	0.4187	0.4458	0.4642	Ave		0.4685			0.1000	11.0		15.0			
Vinyl acetate	0.3243 0.3369	0.2574	0.2631	0.2948	0.3212	Ave		0.2996				11.0		15.0			
2,2-Dichloropropane	0.2140 0.1679	0.1547	0.1601	0.1686	0.1766	Ave		0.1736				12.0		15.0			
cis-1,2-Dichloroethene	0.3694 0.2810	0.2685	0.2587	0.2726	0.2815	Ave		0.2886			0.1000	14.0		15.0			
2-Butanone (MEK)	0.1658 0.0983	0.1013	0.0975	0.0944	0.0993	Lin1	0.0543	0.0964			0.0500				0.9990		0.9900
Bromochloromethane	0.2153 0.1305	0.1264	0.1290	0.1310	0.1346	Lin1	0.0311	0.1296							0.9990		0.9900
Tetrahydrofuran	0.1277 0.0602	0.0659	0.0599	0.0584	0.0602	Lin1	0.0573	0.0583							0.9980		0.9900
Chloroform	0.6039 0.4479	0.4484	0.4191	0.4481	0.4551	Ave		0.4704				14.0		15.0			
1,1,1-Trichloroethane	0.3958 0.3077	0.2902	0.2831	0.3042	0.3105	Ave		0.3152			0.1000	13.0		15.0			
Cyclohexane	0.4611 0.5268	0.4566	0.4668	0.4182	0.4356	Ave		0.4608			0.1000	8.0		15.0			
1,1-Dichloropropene	0.4225 0.3574	0.3339	0.3305	0.3365	0.3502	Ave		0.3552				9.7		15.0			
Carbon tetrachloride	0.3792 0.3411	0.2774	0.2870	0.3044	0.3122	Ave		0.3169			0.1000	12.0		15.0			
Isobutyl alcohol	0.0102 0.0077	0.0072	0.0074	0.0078	0.0080	Ave		0.0080				13.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 14:46 Calibration End Date: 09/09/2014 16:40 Calibration ID: 24156

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								
Benzene	1.5355 1.0943	1.0520	1.0125	1.0696	1.1024	Lin1	0.1361	1.0792			0.0500				0.9990		0.9900
1,2-Dichloroethane	0.5469 0.3814	0.3760	0.3549	0.3822	0.3877	Lin1	0.0560	0.3780			0.1000				0.9990		0.9900
n-Heptane	0.0624 0.0814	0.0743	0.0723	0.0545	0.0599	Ave		0.0675				15.0		15.0			
Trichloroethene	0.3750 0.2824	0.2852	0.2711	0.2771	0.2870	Ave		0.2963			0.2000	13.0		15.0			
Methylcyclohexane	0.3910 0.5022	0.4515	0.4313	0.3756	0.3980	Ave		0.4249			0.1000	11.0		15.0			
1,2-Dichloropropane	0.3451 0.2520	0.2445	0.2361	0.2437	0.2577	Lin1	0.0283	0.2496			0.1000				0.9990		0.9900
Dibromomethane	0.1860 0.1469	0.1355	0.1332	0.1452	0.1478	Ave		0.1491				13.0		15.0			
1,4-Dioxane	0.0028 0.0020	0.0020	0.0019	0.0019	0.0022	Lin1	0.0036	0.0020							0.9960		0.9900
Bromodichloromethane	0.3676 0.3247	0.2580	0.2624	0.2905	0.3157	Ave		0.3032			0.1000	14.0		15.0			
2-Chloroethyl vinyl ether	0.1338 0.1505	0.1073	0.1143	0.1275	0.1450	Ave		0.1297				13.0		15.0			
cis-1,3-Dichloropropene	0.3279 0.3512	0.2500	0.2602	0.3041	0.3348	Ave		0.3047			0.1500	14.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.1803 0.1956	0.1543	0.1585	0.1723	0.1901	Ave		0.1752			0.0500	9.5		15.0			
Toluene	1.8218 1.5965	1.4284	1.4365	1.5585	1.5851	Ave		1.5711			0.4000	9.1		15.0			
trans-1,3-Dichloropropene	0.3240 0.3865	0.2580	0.2713	0.3254	0.3673	Lin1	-0.101	0.3703			0.1000				0.9910		0.9900
Ethyl methacrylate	0.2756 0.3528	0.2221	0.2603	0.3092	0.3404	Lin1	-0.101	0.3420							0.9930		0.9900
1,1,2-Trichloroethane	0.3671 0.2802	0.2539	0.2711	0.2920	0.2865	Ave		0.2918			0.1000	13.0		15.0			
Tetrachloroethene	0.4186 0.2889	0.2861	0.2864	0.2988	0.2895	Lin1	0.0509	0.2870			0.2000				0.9990		0.9900
1,3-Dichloropropane	0.6401 0.5258	0.4865	0.5040	0.5291	0.5285	Ave		0.5357				10.0		15.0			
2-Hexanone	0.1711 0.1763	0.1340	0.1492	0.1639	0.1715	Ave		0.1610			0.0500	10.0		15.0			
Chlorodibromomethane	0.3093 0.2981	0.2241	0.2324	0.2607	0.2790	Ave		0.2673				13.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 14:46 Calibration End Date: 09/09/2014 16:40 Calibration ID: 24156

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-Dibromoethane	0.3343 0.2690	0.2434	0.2386	0.2594	0.2655	Ave		0.2683				13.0		15.0			
Chlorobenzene	1.3611 0.9760	0.9429	0.9218	0.9974	0.9974	Lin1	0.1254	0.9727			0.3000				0.9990		0.9900
1,1,1,2-Tetrachloroethane	0.3766 0.3189	0.2686	0.2772	0.3016	0.3170	Ave		0.3100				12.0		15.0			
Ethylbenzene	0.5342 0.5366	0.4535	0.4784	0.5140	0.5337	Ave		0.5084				6.8		15.0			
m-Xylene & p-Xylene	0.6593 0.6566	0.5394	0.5786	0.6496	0.6548	Ave		0.6230				8.2		15.0			
o-Xylene	0.5915 0.6394	0.4916	0.5367	0.6241	0.6315	Ave		0.5858				10.0		15.0			
Styrene	0.8481 1.0433	0.7516	0.8147	0.9702	1.0177	Ave		0.9076			0.3000	13.0		15.0			
Bromoform	0.1518 0.1688	0.1133	0.1219	0.1342	0.1527	Ave		0.1404			0.1000	15.0		15.0			
Isopropylbenzene	1.4484 1.7472	1.2807	1.4231	1.6203	1.7025	Ave		1.5370			0.1000	12.0		15.0			
1,1,2,2-Tetrachloroethane	0.7946 0.5747	0.5287	0.5425	0.5676	0.5823	Lin1	0.0610	0.5692			0.3000				0.9990		0.9900
Bromobenzene	0.8231 0.6963	0.6281	0.6322	0.6881	0.6995	Ave		0.6946				10.0		15.0			
1,2,3-Trichloropropane	0.2501 0.1892	0.1820	0.1836	0.1876	0.1957	Ave		0.1980				13.0		15.0			
trans-1,4-Dichloro-2-butene	0.1703 0.1718	0.1248	0.1375	0.1478	0.1572	Ave		0.1516				12.0		15.0			
N-Propylbenzene	0.7081 0.7913	0.6280	0.6925	0.7818	0.7953	Ave		0.7328				9.2		15.0			
2-Chlorotoluene	0.7271 0.6656	0.5706	0.6169	0.6559	0.6837	Ave		0.6533				8.3		15.0			
1,3,5-Trimethylbenzene	1.9042 2.3638	1.7496	2.0522	2.2483	2.3223	Ave		2.1067				12.0		15.0			
4-Chlorotoluene	0.7535 0.7208	0.6290	0.6604	0.7028	0.7256	Ave		0.6987				6.6		15.0			
tert-Butylbenzene	1.8596 2.0820	1.6207	1.7503	1.9678	2.0746	Ave		1.8925				9.7		15.0			
1,2,4-Trimethylbenzene	2.0428 2.4446	1.8778	2.1401	2.4010	2.4425	Ave		2.2248				11.0		15.0			
sec-Butylbenzene	2.5976 2.8615	2.2412	2.4994	2.7274	2.7804	Ave		2.6179				8.6		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 14:46 Calibration End Date: 09/09/2014 16:40 Calibration ID: 24156

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								
1,3-Dichlorobenzene	1.7330 1.3581	1.2782	1.2822	1.3469	1.3963	Ave		1.3991			0.6000	12.0		15.0			
4-Isopropyltoluene	2.1528 2.5542	1.8650	2.1701	2.4485	2.5145	Ave		2.2842				12.0		15.0			
1,4-Dichlorobenzene	2.0846 1.3871	1.3456	1.3316	1.3859	1.4182	Lin1	0.2423	1.3761			0.5000				0.9990		0.9900
n-Butylbenzene	1.9294 2.1416	1.5298	1.7569	1.9770	2.0807	Ave		1.9026				12.0		15.0			
1,2-Dichlorobenzene	1.7048 1.2648	1.2230	1.2442	1.3401	1.3300	Ave		1.3511			0.4000	13.0		15.0			
1,2-Dibromo-3-Chloropropane	0.1028 0.0762	0.0791	0.0726	0.0753	0.0804	Ave		0.0811			0.0500	14.0		15.0			
1,2,4-Trichlorobenzene	0.9708 0.6148	0.6538	0.6716	0.7432	0.7461	Lin1	0.1522	0.6605			0.2000				0.9900		0.9900
Hexachlorobutadiene	0.4831	0.3069	0.3201	0.3227	0.2915	Lin1	0.0867	0.2954							0.9970		0.9900
Naphthalene	1.2886 1.3437	1.0122	1.1752	1.4816	1.5744	Lin1	-0.221	1.4184							0.9910		0.9900
1,2,3-Trichlorobenzene	0.8732	0.5994	0.6248	0.7037	0.6606	Lin1	0.0583	0.6591							0.9960		0.9900
Dibromofluoromethane (Surr)	0.2696 0.2326	0.2256	0.2202	0.2277	0.2336	Ave		0.2349				7.5		15.0			
1,2-Dichloroethane-d4 (Surr)	0.4309 0.3104	0.3250	0.3044	0.3128	0.3151	Ave		0.3331				15.0		15.0			
Toluene-d8 (Surr)	1.3730 1.3834	1.2372	1.2522	1.3442	1.3472	Ave		1.3229				4.7		15.0			
4-Bromofluorobenzene (Surr)	0.4550 0.4769	0.4282	0.4363	0.4719	0.4712	Ave		0.4566				4.5		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 14:46 Calibration End Date: 09/09/2014 16:40 Calibration ID: 24156

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-146190/7	UXR5649.D
Level 2	STD8260 240-146190/6	UXR5648.D
Level 3	STD8260 240-146190/5	UXR5647.D
Level 4	STD8260 240-146190/4	UXR5646.D
Level 5	STD8260 240-146190/3	UXR5645.D
Level 6	STD8260 240-146190/2	UXR5644.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	33743 2860760	137874	337571	568893	1220868	0.500 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Lin1	44466 2674854	134820	353037	741268	1446952	0.500 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Lin1	52179 3030214	148928	385554	777642	1565151	0.500 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Lin1	20070 1381460	56263	152138	327922	705404	0.500 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Lin1	31048 1703068	77294	191485	415313	854843	0.500 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	38296 3372134	116256	340779	760495	1713849	0.500 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	33157 3037770	135380	344229	649673	1383231	0.500 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Lin1	30883 1805063	86770	216579	459167	935405	0.500 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	13683 919281	41337	108044	232439	460119	2.50 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Lin1	34248 2267477	103546	259863	536760	1103929	0.500 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	24139 2028567	103155	242216	409280	824678	0.500 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	33984 1168133	76212	162864	319256	602078	1.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Lin1	46084 2932402	138694	345578	728169	1516969	0.500 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	72651 5886092	221403	595041	1285087	2733784	0.500 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	12754 1145654	45140	118815	263241	572496	0.500 40.0	2.00	5.00	10.0	20.0
Methyl acetate	FB	Ave	104123 7144803	328058	848135	1763502	3612873	2.50 200	10.0	25.0	50.0	100

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 14:46 Calibration End Date: 09/09/2014 16:40 Calibration ID: 24156

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methylene Chloride	FB	Lin1	80051 2160427	151248	303106	611781	1157281	0.500 40.0	2.00	5.00	10.0	20.0
tert-Butyl alcohol	FB	Lin1	15501 937830	47834	112741	236820	484585	5.00 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	109287 7737551	344355	885152	1883757	3879310	5.00 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	65265 5140959	219337	563090	1264643	2617148	0.500 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	34125 2294292	110934	271688	558399	1165558	0.500 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	6617 729262	33080	85360	133291	274626	0.500 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	52966 3796384	183582	441485	956535	1992021	0.500 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	29043 2705637	98405	266331	607330	1323377	0.480 38.4	1.92	4.80	9.60	19.2
2,2-Dichloropropane	FB	Ave	19963 1404398	61584	168860	361823	757821	0.500 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	34459 2351246	106935	272780	584987	1208103	0.500 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Lin1	30931 1645702	80710	205705	405148	852441	1.00 80.0	4.00	10.0	20.0	40.0
Bromochloromethane	FB	Lin1	20084 1091995	50349	135995	281218	577715	0.500 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Lin1	23827 1007385	52502	126283	250581	516766	1.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	56336 3747845	178536	441939	961598	1953309	0.500 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	36928 2574129	115540	298535	652848	1332464	0.500 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	43016 4407347	181801	492215	897422	1869297	0.500 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	39417 2990361	132956	348529	722016	1502719	0.500 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	35374 2854230	110472	302609	653268	1339687	0.500 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBZ	Ave	18094 1237170	54079	142867	309862	648435	12.5 1000	50.0	125	250	500
Benzene	FB	Lin1	143250 9156205	418907	1067693	2295266	4731045	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane	FB	Lin1	51018 3190690	149712	374253	820230	1664049	0.500 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 14:46 Calibration End Date: 09/09/2014 16:40 Calibration ID: 24156

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Heptane	FB	Ave	5821 680799	29598	76221	117044	256864	0.500 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	34981 2362791	113580	285911	594578	1231852	0.500 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	36474 4202121	179795	454862	805964	1707931	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Lin1	32193 2108679	97342	248980	522923	1106055	0.500 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	17352 1228689	53954	140492	311638	634254	0.500 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Lin1	5165 338975	15699	39079	82872	190646	10.0 800	40.0	100	200	400
Bromodichloromethane	FB	Ave	34296 2716399	102754	276743	623411	1354959	0.500 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	24974 2519219	85460	241158	547065	1244216	1.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	30589 2938562	99568	274354	652542	1436892	0.500 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	33637 3272550	122910	334234	739492	1631895	1.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	129872 10251185	428797	1115945	2473092	5164621	0.500 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Lin1	23096 2481595	77454	210761	516346	1196597	0.500 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Lin1	19647 2265173	66673	202253	490659	1109042	0.500 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	26166 1798913	76213	210592	463339	933535	0.500 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Lin1	29839 1854800	85896	222483	474103	943170	0.500 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	45634 3376273	146043	391568	839604	1721909	0.500 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	24393 2263932	80476	231823	520203	1117495	1.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Ave	22049 1913880	67258	180575	413611	909208	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	23829 1727078	73079	185362	411542	864941	0.500 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Lin1	97029 6266767	283046	716089	1582745	3249832	0.500 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	26850 2047468	80632	215343	478515	1032922	0.500 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 14:46 Calibration End Date: 09/09/2014 16:40 Calibration ID: 24156

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethylbenzene	CBZ	Ave	38084 3445881	136138	371677	815586	1738983	0.500 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	47000 4215865	161912	449509	1030742	2133582	0.500 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	42163 4105862	147579	416908	990302	2057722	0.500 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	60455 6699093	225622	632899	1539506	3315975	0.500 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	10823 1083993	34008	94681	212878	497616	0.500 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	103252 11219058	384459	1105559	2571088	5547020	0.500 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Lin1	32623 2205531	95100	252188	545180	1139432	0.500 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	33792 2672410	112980	293880	660890	1368803	0.500 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	10267 726215	32734	85362	180150	382911	0.500 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	6991 659293	22454	63928	141989	307644	0.500 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	29070 3036870	112953	321938	750877	1556177	0.500 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	29852 2554538	102640	286778	629960	1337904	0.500 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	78180 9071563	314699	953986	2159317	4544217	0.500 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	30935 2766092	113138	307012	674944	1419751	0.500 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	76348 7990233	291527	813639	1889937	4059497	0.500 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	83870 9381874	337768	994868	2306007	4779409	0.500 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	106648 10981827	403125	1161880	2619459	5440562	0.500 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	71149 5212093	229906	596053	1293635	2732333	0.500 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	88386 9802583	335469	1008806	2351599	4920387	0.500 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Lin1	85585 5323390	242031	618998	1331073	2775017	0.500 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	79215 8219033	275167	816742	1898794	4071484	0.500 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 14:46 Calibration End Date: 09/09/2014 16:40 Calibration ID: 24156

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	69994 4853947	219987	578399	1287017	2602420	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	4221 292414	14235	33747	72312	157266	0.500 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Lin1	39858 2359591	117604	312187	713795	1459965	0.500 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Lin1	19833	55205	148823	309924	570309	0.500	2.00	5.00	10.0	20.0
Naphthalene	DCB	Lin1	52906 5156940	182076	546320	1422991	3080777	0.500 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Lin1	35852	107811	290444	675857	1292708	0.500	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	25150 1946061	89834	232251	488645	1002390	0.500 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	40198 2597242	129415	321034	671235	1352398	0.500 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	97880 8882760	371410	972761	2133033	4389586	0.500 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	32436 3062262	128534	338952	748738	1535177	0.500 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 17:02 Calibration End Date: 09/09/2014 18:55 Calibration ID: 24158

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-146190/13	UXR5655.D
Level 2	STDA9 240-146190/12	UXR5654.D
Level 3	STDA9 240-146190/11	UXR5653.D
Level 4	STDA9 240-146190/10	UXR5652.D
Level 5	STDA9 240-146190/9	UXR5651.D
Level 6	STDA9 240-146190/8	UXR5650.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								
Acetonitrile	0.0306 0.0278	0.0261	0.0277	0.0276	0.0284	Ave		0.0280				5.2		15.0			
Diisopropyl ether	0.1762 0.2215	0.1682	0.1839	0.2037	0.2241	Ave		0.1963				12.0		15.0			
2-Chloro-1,3-butadiene	0.3706 0.4517	0.3412	0.3875	0.4113	0.4458	Ave		0.4013				11.0		15.0			
Ethyl tert-butyl ether	0.5529 0.6501	0.5106	0.5604	0.5895	0.6431	Ave		0.5844				9.3		15.0			
Ethyl acetate	0.0709 0.0714	0.0726	0.0648	0.0650	0.0709	Ave		0.0693				5.0		15.0			
Propionitrile	0.0285 0.0327	0.0289	0.0294	0.0296	0.0334	Ave		0.0304				6.9		15.0			
Methacrylonitrile	0.1341 0.1656	0.1311	0.1399	0.1450	0.1610	Ave		0.1461				9.7		15.0			
Tert-amyl methyl ether	0.4073 0.5433	0.4111	0.4410	0.4784	0.5190	Ave		0.4667				12.0		15.0			
n-Butanol	0.0033 0.0051	0.0041	0.0039	0.0041	0.0049	Lin1	-0.060	0.0050							0.9950		0.9900
Ethyl acrylate	0.1948 0.2695	0.1855	0.1979	0.2152	0.2532	Lin1	-0.133	0.2609							0.9930		0.9900
Methyl methacrylate	0.1447 0.2162	0.1443	0.1616	0.1756	0.2054	Lin1	-0.232	0.2109							0.9950		0.9900
2-Nitropropane	0.0336 0.0471	0.0338	0.0329	0.0363	0.0424	Ave		0.0377				15.0		15.0			
1-Chlorohexane	0.2813 0.4072	0.2840	0.3177	0.3273	0.3834	Lin1	-0.199	0.3956							0.9950		0.9900
Cyclohexanone	0.0130 0.0185	0.0112	0.0125	0.0143	0.0175	Lin1	-0.109	0.0179							0.9900		0.9900
1,2,3-Trimethylbenzene	1.7766 2.8930	1.7883	2.2486	2.4968	2.7663	Lin1	-1.687	2.8556							0.9970		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 17:02 Calibration End Date: 09/09/2014 18:55 Calibration ID: 24158

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								
1,3,5-Trichlorobenzene	0.9456 1.0480	0.9179	0.9771	0.9903	1.0409	Ave		0.9867				5.2		15.0			
2-Methylnaphthalene	0.3365 0.6617	0.4051	0.4943	0.6955	0.8844	Qua	-3.428	1.0986	-0.004854						0.9900		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 17:02 Calibration End Date: 09/09/2014 18:55 Calibration ID: 24158

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-146190/13	UXR5655.D
Level 2	STDA9 240-146190/12	UXR5654.D
Level 3	STDA9 240-146190/11	UXR5653.D
Level 4	STDA9 240-146190/10	UXR5652.D
Level 5	STDA9 240-146190/9	UXR5651.D
Level 6	STDA9 240-146190/8	UXR5650.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	58065 2305115	102427	277508	566827	1167353	10.0 400	20.0	50.0	100	200
Diisopropyl ether	FB	Ave	33443 1837398	65979	183921	418424	919954	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	70337 3747245	133833	387663	844878	1830023	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	104937 5394137	200304	560568	1210934	2639825	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	26928 1184397	56946	129549	266872	582314	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	54068 2716849	113338	293910	608680	1370622	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	254477 13739292	514183	1399184	2978301	6608572	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	77302 4507469	161265	441160	982750	2130354	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	CBZ	Lin1	11669 818444	30190	73765	168144	402668	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Lin1	36975 2236064	72756	197946	441978	1039232	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Lin1	54934 3587946	113231	323370	721502	1686372	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	12754 781674	26544	65896	148990	348298	2.00 80.0	4.00	10.0	20.0	40.0
1-Chlorohexane	CBZ	Lin1	39889 2624879	84481	240534	536688	1249311	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Lin1	8985 611571	16166	47138	112699	283943	10.0 400	20.0	50.0	100	200
1,2,3-Trimethylbenzene	DCB	Lin1	123183 9547350	258186	844755	1964180	4487073	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	65566 3458565	132530	367089	779063	1688427	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42580-1 Analy Batch No.: 146190

SDG No.:

Instrument ID: A3UX17 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/09/2014 17:02 Calibration End Date: 09/09/2014 18:55 Calibration ID: 24158

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methylnaphthalene	DCB	Qua	46662 4367584	116988	371400	1094265	2868999	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Lab Sample ID: ICV 240-146190/14 Calibration Date: 09/09/2014 19:18

Instrument ID: A3UX17 Calib Start Date: 09/09/2014 14:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/09/2014 16:40

Lab File ID: UXR5656.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	0.3199	0.2570	0.1000	0.00803	0.0100	-19.7	20.0
Chloromethane	Lin1		0.3294	0.1000	0.00993	0.0100	-0.7	20.0
Vinyl chloride	Lin1		0.3574	0.1000	0.00975	0.0100	-2.5	20.0
Bromomethane	Lin1		0.1469	0.0500	0.00907	0.0100	-9.3	20.0
Chloroethane	Lin1		0.1870	0.0500	0.00928	0.0100	-7.2	20.0
Dichlorofluoromethane	Ave	0.3637	0.3482		0.00957	0.0100	-4.3	20.0
Trichlorofluoromethane	Ave	0.3350	0.3078	0.1000	0.00919	0.0100	-8.1	20.0
Ethyl ether	Lin1		0.2306		0.0106	0.0100	6.3	20.0
Acrolein	Ave	0.0226	0.0314		0.0694	0.0500	38.8*	20.0
1,1-Dichloroethene	Lin1		0.2582	0.1000	0.00977	0.0100	-2.3	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.2288	0.2067	0.0500	0.00904	0.0100	-9.6	20.0
Acetone	Lin1		0.0717	0.0500	0.0194	0.0200	-2.8	20.0
Iodomethane	Lin1		0.4013		0.0115	0.0100	14.8	20.0
Carbon disulfide	Ave	0.6397	0.6700	0.1000	0.0105	0.0100	4.7	20.0
3-Chloro-1-propene	Ave	0.1260	0.1218		0.00967	0.0100	-3.3	20.0
Methyl acetate	Ave	0.1754	0.1693	0.1000	0.0483	0.0500	-3.5	20.0
Methylene Chloride	Lin1		0.3004	0.1000	0.0108	0.0100	8.1	20.0
tert-Butyl alcohol	Lin1		0.0101		0.0895	0.100	-10.5	20.0
Acrylonitrile	Ave	0.0930	0.0897		0.0964	0.100	-3.6	20.0
Methyl tert-butyl ether	Ave	0.5997	0.5887	0.1000	0.00982	0.0100	-1.8	20.0
trans-1,2-Dichloroethene	Ave	0.2847	0.2906	0.1000	0.0102	0.0100	2.1	20.0
Hexane	Ave	0.0747	0.0713		0.00954	0.0100	-4.6	20.0
1,1-Dichloroethane	Ave	0.4685	0.4860	0.1000	0.0104	0.0100	3.7	20.0
Vinyl acetate	Ave	0.2996	0.2472		0.00660	0.00800	-17.5	20.0
2,2-Dichloropropane	Ave	0.1736	0.1746		0.0101	0.0100	0.6	20.0
cis-1,2-Dichloroethene	Ave	0.2886	0.2965	0.1000	0.0103	0.0100	2.7	20.0
2-Butanone (MEK)	Lin1		0.0928	0.0500	0.0187	0.0200	-6.6	20.0
Bromochloromethane	Lin1		0.1427		0.0108	0.0100	7.7	20.0
Tetrahydrofuran	Lin1		0.0572		0.0186	0.0200	-6.8	20.0
Chloroform	Ave	0.4704	0.4694	0.2000	0.00998	0.0100	-0.2	20.0
1,1,1-Trichloroethane	Ave	0.3152	0.3188	0.1000	0.0101	0.0100	1.1	20.0
Cyclohexane	Ave	0.4608	0.4430	0.1000	0.00961	0.0100	-3.9	20.0
1,1-Dichloropropene	Ave	0.3552	0.3852		0.0108	0.0100	8.5	20.0
Carbon tetrachloride	Ave	0.3169	0.3214	0.1000	0.0101	0.0100	1.4	20.0
Isobutyl alcohol	Ave	0.0080	0.0066		0.206	0.250	-17.5	20.0
Benzene	Lin1		1.138	0.5000	0.0104	0.0100	4.2	20.0
1,2-Dichloroethane	Lin1		0.4166	0.1000	0.0109	0.0100	8.7	20.0
n-Heptane	Ave	0.0675	0.0603		0.00893	0.0100	-10.7	20.0
Trichloroethene	Ave	0.2963	0.3062	0.2000	0.0103	0.0100	3.3	20.0
Methylcyclohexane	Ave	0.4249	0.4056	0.1000	0.00955	0.0100	-4.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Lab Sample ID: ICV 240-146190/14 Calibration Date: 09/09/2014 19:18

Instrument ID: A3UX17 Calib Start Date: 09/09/2014 14:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/09/2014 16:40

Lab File ID: UXR5656.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-Dichloropropane	Lin1		0.2570	0.1000	0.0102	0.0100	1.8	20.0
1,4-Dioxane	Lin1		0.0016		0.150	0.200	-25.0*	20.0
Dibromomethane	Ave	0.1491	0.1531		0.0103	0.0100	2.7	20.0
Bromodichloromethane	Ave	0.3032	0.3029	0.1000	0.00999	0.0100	-0.0	20.0
2-Chloroethyl vinyl ether	Ave	0.1297	0.1223		0.0113	0.0120	-5.8	20.0
cis-1,3-Dichloropropene	Ave	0.3047	0.3256	0.1500	0.0107	0.0100	6.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1752	0.1738	0.0500	0.0198	0.0200	-0.8	20.0
Toluene	Ave	1.571	1.657	0.4000	0.0105	0.0100	5.5	20.0
trans-1,3-Dichloropropene	Lin1		0.3614	0.1000	0.0100	0.0100	0.3	20.0
Ethyl methacrylate	Lin1		0.3429		0.0103	0.0100	3.2	20.0
1,1,2-Trichloroethane	Ave	0.2918	0.2886	0.1000	0.00989	0.0100	-1.1	20.0
Tetrachloroethene	Lin1		0.3072	0.2000	0.0105	0.0100	5.3	20.0
1,3-Dichloropropane	Ave	0.5357	0.5268		0.00983	0.0100	-1.7	20.0
2-Hexanone	Ave	0.1610	0.1601	0.0500	0.0199	0.0200	-0.6	20.0
Chlorodibromomethane	Ave	0.2673	0.2660		0.00995	0.0100	-0.5	20.0
1,2-Dibromoethane	Ave	0.2683	0.2650		0.00988	0.0100	-1.2	20.0
Chlorobenzene	Lin1		1.024	0.3000	0.0104	0.0100	4.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3100	0.3183		0.0103	0.0100	2.7	20.0
Ethylbenzene	Ave	0.5084	0.5410		0.0106	0.0100	6.4	20.0
m-Xylene & p-Xylene	Ave	0.6230	0.6650		0.0107	0.0100	6.7	20.0
o-Xylene	Ave	0.5858	0.6450		0.0110	0.0100	10.1	20.0
Styrene	Ave	0.9076	1.042	0.3000	0.0115	0.0100	14.8	20.0
Bromoform	Ave	0.1404	0.1350	0.1000	0.00961	0.0100	-3.9	20.0
Isopropylbenzene	Ave	1.537	1.645	0.1000	0.0107	0.0100	7.0	20.0
1,1,2,2-Tetrachloroethane	Lin1		0.5619	0.3000	0.00977	0.0100	-2.3	20.0
Bromobenzene	Ave	0.6946	0.7090		0.0102	0.0100	2.1	20.0
1,2,3-Trichloropropane	Ave	0.1980	0.1994		0.0101	0.0100	0.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1516	0.1540		0.0102	0.0100	1.6	20.0
N-Propylbenzene	Ave	0.7328	0.7962		0.0109	0.0100	8.7	20.0
2-Chlorotoluene	Ave	0.6533	0.6791		0.0104	0.0100	3.9	20.0
1,3,5-Trimethylbenzene	Ave	2.107	2.307		0.0110	0.0100	9.5	20.0
4-Chlorotoluene	Ave	0.6987	0.7372		0.0106	0.0100	5.5	20.0
tert-Butylbenzene	Ave	1.893	1.985		0.0105	0.0100	4.9	20.0
1,2,4-Trimethylbenzene	Ave	2.225	2.419		0.0109	0.0100	8.7	20.0
sec-Butylbenzene	Ave	2.618	2.760		0.0105	0.0100	5.4	20.0
1,3-Dichlorobenzene	Ave	1.399	1.404	0.6000	0.0100	0.0100	0.3	20.0
4-Isopropyltoluene	Ave	2.284	2.443		0.0107	0.0100	7.0	20.0
1,4-Dichlorobenzene	Lin1		1.440	0.5000	0.0103	0.0100	2.9	20.0
n-Butylbenzene	Ave	1.903	1.998		0.0105	0.0100	5.0	20.0
1,2-Dichlorobenzene	Ave	1.351	1.359	0.4000	0.0101	0.0100	0.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0811	0.0745	0.0500	0.00919	0.0100	-8.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Lab Sample ID: ICV 240-146190/14 Calibration Date: 09/09/2014 19:18

Instrument ID: A3UX17 Calib Start Date: 09/09/2014 14:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/09/2014 16:40

Lab File ID: UXR5656.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
1,2,4-Trichlorobenzene	Lin1		0.7111	0.2000	0.0105	0.0100	5.4	20.0
Hexachlorobutadiene	Lin1		0.3047		0.0100	0.0100	0.2	20.0
Naphthalene	Lin1		1.296		0.00929	0.0100	-7.1	20.0
1,2,3-Trichlorobenzene	Lin1		0.6497		0.00977	0.0100	-2.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2349	0.2356		0.0100	0.0100	0.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3331	0.3208		0.00963	0.0100	-3.7	20.0
Toluene-d8 (Surr)	Ave	1.323	1.348		0.0102	0.0100	1.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4566	0.4690		0.0103	0.0100	2.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Lab Sample ID: ICV 240-146190/15 Calibration Date: 09/09/2014 19:40

Instrument ID: A3UX17 Calib Start Date: 09/09/2014 17:02

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/09/2014 18:55

Lab File ID: UXR5657.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
Acetonitrile	Ave	0.0280	0.0287		0.102	0.100	2.4	20.0
Diisopropyl ether	Ave	0.1963	0.2150		0.0110	0.0100	9.5	20.0
2-Chloro-1,3-butadiene	Ave	0.4013	0.4350		0.0108	0.0100	8.4	20.0
Ethyl tert-butyl ether	Ave	0.5844	0.6161		0.0105	0.0100	5.4	20.0
Ethyl acetate	Ave	0.0693	0.0960		0.0277	0.0200	38.7*	20.0
Propionitrile	Ave	0.0304	0.0331		0.109	0.100	8.9	20.0
Methacrylonitrile	Ave	0.1461	0.1549		0.106	0.100	6.1	20.0
Tert-amyl methyl ether	Ave	0.4667	0.4991		0.0107	0.0100	6.9	20.0
n-Butanol	Lin1		0.0039		0.210	0.250	-16.0	20.0
Ethyl acrylate	Lin1		0.2331		0.00945	0.0100	-5.5	20.0
Methyl methacrylate	Lin1		0.1919		0.0193	0.0200	-3.5	20.0
2-Nitropropane	Ave	0.0377	0.0381		0.0202	0.0200	1.1	20.0
1-Chlorohexane	Lin1		0.3638		0.00970	0.0100	-3.0	20.0
Cyclohexanone	Lin1		0.0108		0.0662	0.100	-33.8*	20.0
1,2,3-Trimethylbenzene	Lin1		2.611		0.00973	0.0100	-2.7	20.0
1,3,5-Trichlorobenzene	Ave	0.9867	1.032		0.0105	0.0100	4.6	20.0
2-Methylnaphthalene	Qua		0.3592		0.0101	0.0200	-49.4*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Lab Sample ID: CCVIS 240-149741/2 Calibration Date: 10/02/2014 10:34

Instrument ID: A3UX17 Calib Start Date: 09/09/2014 14:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/09/2014 16:40

Lab File ID: UXR6215.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	0.3199	0.3729	0.1000	0.0117	0.0100	16.6	20.0
Chloromethane	Lin1		0.4695	0.1000	0.0143	0.0100	42.5*	20.0
Vinyl chloride	Lin1		0.4358	0.1000	0.0119	0.0100	19.3	20.0
Bromomethane	Lin1		0.1401	0.0500	0.00866	0.0100	-13.4	20.0
Chloroethane	Lin1		0.1835	0.0500	0.00910	0.0100	-9.0	20.0
Dichlorofluoromethane	Ave	0.3637	0.3976		0.0109	0.0100	9.3	20.0
Trichlorofluoromethane	Ave	0.3350	0.3178	0.1000	0.00949	0.0100	-5.1	20.0
Ethyl ether	Lin1		0.2329		0.0107	0.0100	7.4	20.0
Acrolein	Ave	0.0226	0.0174		0.0384	0.0500	-23.2*	20.0
1,1-Dichloroethene	Lin1		0.2925	0.1000	0.0111	0.0100	10.8	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.2288	0.2504	0.0500	0.0109	0.0100	9.4	20.0
Acetone	Lin1		0.0666	0.0500	0.0179	0.0200	-10.3	20.0
Iodomethane	Lin1		0.4207		0.0120	0.0100	20.4*	20.0
Carbon disulfide	Ave	0.6397	0.8384	0.1000	0.0131	0.0100	31.1*	20.0
3-Chloro-1-propene	Ave	0.1260	0.1359		0.0108	0.0100	7.9	20.0
Methyl acetate	Ave	0.1754	0.1588	0.1000	0.0453	0.0500	-9.4	20.0
Methylene Chloride	Lin1		0.3387	0.1000	0.0123	0.0100	23.4*	20.0
tert-Butyl alcohol	Lin1		0.0089		0.0781	0.100	-21.9*	20.0
Acrylonitrile	Ave	0.0930	0.0872		0.0937	0.100	-6.3	20.0
Methyl tert-butyl ether	Ave	0.5997	0.5713	0.1000	0.00953	0.0100	-4.7	20.0
trans-1,2-Dichloroethene	Ave	0.2847	0.3239	0.1000	0.0114	0.0100	13.8	20.0
Hexane	Ave	0.0747	0.0816		0.0109	0.0100	9.2	20.0
1,1-Dichloroethane	Ave	0.4685	0.5401	0.1000	0.0115	0.0100	15.3	20.0
Vinyl acetate	Ave	0.2996	0.3055		0.00979	0.00960	2.0	20.0
2,2-Dichloropropane	Ave	0.1736	0.2352		0.0135	0.0100	35.4*	20.0
2-Butanone (MEK)	Lin1		0.0852	0.0500	0.0171	0.0200	-14.5	20.0
cis-1,2-Dichloroethene	Ave	0.2886	0.3235	0.1000	0.0112	0.0100	12.1	20.0
Bromochloromethane	Lin1		0.1498		0.0113	0.0100	13.2	20.0
Tetrahydrofuran	Lin1		0.0491		0.0159	0.0200	-20.7*	20.0
Chloroform	Ave	0.4704	0.5154	0.2000	0.0110	0.0100	9.6	20.0
1,1,1-Trichloroethane	Ave	0.3152	0.3645	0.1000	0.0116	0.0100	15.6	20.0
Cyclohexane	Ave	0.4608	0.5413	0.1000	0.0117	0.0100	17.5	20.0
1,1-Dichloropropene	Ave	0.3552	0.3957		0.0111	0.0100	11.4	20.0
Carbon tetrachloride	Ave	0.3169	0.3393	0.1000	0.0107	0.0100	7.1	20.0
Isobutyl alcohol	Ave	0.0080	0.0061		0.191	0.250	-23.8*	20.0
Benzene	Lin1		1.269	0.5000	0.0116	0.0100	16.4	20.0
1,2-Dichloroethane	Lin1		0.3911	0.1000	0.0102	0.0100	2.0	20.0
n-Heptane	Ave	0.0675	0.0700		0.0104	0.0100	3.8	20.0
Trichloroethene	Ave	0.2963	0.3244	0.2000	0.0109	0.0100	9.5	20.0
Methylcyclohexane	Ave	0.4249	0.4817	0.1000	0.0113	0.0100	13.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Lab Sample ID: CCVIS 240-149741/2 Calibration Date: 10/02/2014 10:34

Instrument ID: A3UX17 Calib Start Date: 09/09/2014 14:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/09/2014 16:40

Lab File ID: UXR6215.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-Dichloropropane	Lin1		0.2910	0.1000	0.0115	0.0100	15.4	20.0
1,4-Dioxane	Lin1		0.0014		0.138	0.200	-30.8*	20.0
Dibromomethane	Ave	0.1491	0.1504		0.0101	0.0100	0.9	20.0
Bromodichloromethane	Ave	0.3032	0.3318	0.1000	0.0109	0.0100	9.4	20.0
2-Chloroethyl vinyl ether	Ave	0.1297	0.1194		0.0184	0.0200	-8.0	20.0
cis-1,3-Dichloropropene	Ave	0.3047	0.3292	0.1500	0.0108	0.0100	8.0	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1752	0.1611	0.0500	0.0184	0.0200	-8.1	20.0
Toluene	Ave	1.571	1.766	0.4000	0.0112	0.0100	12.4	20.0
trans-1,3-Dichloropropene	Lin1		0.3286	0.1000	0.00915	0.0100	-8.5	20.0
Ethyl methacrylate	Lin1		0.3083		0.00931	0.0100	-6.9	20.0
1,1,2-Trichloroethane	Ave	0.2918	0.2927	0.1000	0.0100	0.0100	0.3	20.0
Tetrachloroethene	Lin1		0.3339	0.2000	0.0115	0.0100	14.6	20.0
1,3-Dichloropropane	Ave	0.5357	0.5299		0.00989	0.0100	-1.1	20.0
2-Hexanone	Ave	0.1610	0.1494	0.0500	0.0186	0.0200	-7.2	20.0
Chlorodibromomethane	Ave	0.2673	0.2784		0.0104	0.0100	4.2	20.0
1,2-Dibromoethane	Ave	0.2683	0.2594		0.00967	0.0100	-3.3	20.0
Chlorobenzene	Lin1		1.101	0.3000	0.0112	0.0100	11.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3100	0.3560		0.0115	0.0100	14.9	20.0
Ethylbenzene	Ave	0.5084	0.5774		0.0114	0.0100	13.6	20.0
m-Xylene & p-Xylene	Ave	0.6230	0.7264		0.0117	0.0100	16.6	20.0
o-Xylene	Ave	0.5858	0.7096		0.0121	0.0100	21.1*	20.0
Styrene	Ave	0.9076	1.095	0.3000	0.0121	0.0100	20.7*	20.0
Bromoform	Ave	0.1404	0.1374	0.1000	0.00978	0.0100	-2.2	20.0
Isopropylbenzene	Ave	1.537	1.794	0.1000	0.0117	0.0100	16.7	20.0
1,1,2,2-Tetrachloroethane	Lin1		0.5388	0.3000	0.00936	0.0100	-6.4	20.0
Bromobenzene	Ave	0.6946	0.7361		0.0106	0.0100	6.0	20.0
1,2,3-Trichloropropane	Ave	0.1980	0.1751		0.00884	0.0100	-11.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1516	0.0845		0.00558	0.0100	-44.2*	20.0
N-Propylbenzene	Ave	0.7328	0.8552		0.0117	0.0100	16.7	20.0
2-Chlorotoluene	Ave	0.6533	0.7289		0.0112	0.0100	11.6	20.0
1,3,5-Trimethylbenzene	Ave	2.107	2.461		0.0117	0.0100	16.8	20.0
4-Chlorotoluene	Ave	0.6987	0.7871		0.0113	0.0100	12.7	20.0
tert-Butylbenzene	Ave	1.893	2.136		0.0113	0.0100	12.9	20.0
1,2,4-Trimethylbenzene	Ave	2.225	2.611		0.0117	0.0100	17.3	20.0
sec-Butylbenzene	Ave	2.618	2.973		0.0114	0.0100	13.6	20.0
1,3-Dichlorobenzene	Ave	1.399	1.480	0.6000	0.0106	0.0100	5.8	20.0
4-Isopropyltoluene	Ave	2.284	2.665		0.0117	0.0100	16.7	20.0
1,4-Dichlorobenzene	Lin1		1.522	0.5000	0.0109	0.0100	8.8	20.0
n-Butylbenzene	Ave	1.903	2.128		0.0112	0.0100	11.8	20.0
1,2-Dichlorobenzene	Ave	1.351	1.408	0.4000	0.0104	0.0100	4.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0811	0.0631	0.0500	0.00778	0.0100	-22.2*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Lab Sample ID: CCVIS 240-149741/2 Calibration Date: 10/02/2014 10:34

Instrument ID: A3UX17 Calib Start Date: 09/09/2014 14:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/09/2014 16:40

Lab File ID: UXR6215.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
1,2,4-Trichlorobenzene	Lin1		0.6788	0.2000	0.0100	0.0100	0.5	20.0
Hexachlorobutadiene	Lin1		0.3203		0.0105	0.0100	5.5	20.0
Naphthalene	Lin1		1.002		0.00722	0.0100	-27.8*	20.0
1,2,3-Trichlorobenzene	Lin1		0.5710		0.00857	0.0100	-14.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2349	0.2297		0.00872	0.00891	-2.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3331	0.2703		0.00723	0.00891	-18.9	20.0
Toluene-d8 (Surr)	Ave	1.323	1.310		0.00883	0.00891	-0.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4566	0.4577		0.00894	0.00891	0.2	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-149741/7

Matrix: Water | Lab File ID: UXR6220.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 12:28

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.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-149741/7

Matrix: Water | Lab File ID: UXR6220.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 12:28

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.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-149741/7

Matrix: Water Lab File ID: UXR6220.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 12:28

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.: 149741 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	83		74-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-121
460-00-4	4-Bromofluorobenzene (Surr)	79		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-149741/4

Matrix: Water | Lab File ID: UXR6217.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 11:19

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.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	10.8		1.0	0.28
71-55-6	1,1,1-Trichloroethane	11.4		1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	8.66		1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	10.6		1.0	0.37
75-34-3	1,1-Dichloroethane	11.3		1.0	0.26
75-35-4	1,1-Dichloroethene	10.4		1.0	0.45
563-58-6	1,1-Dichloropropene	11.4		1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	8.35		1.0	0.37
96-18-4	1,2,3-Trichloropropane	8.24		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	9.81		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	10.8		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	7.81		2.0	0.82
95-50-1	1,2-Dichlorobenzene	9.76		1.0	0.17
107-06-2	1,2-Dichloroethane	9.70		1.0	0.20
78-87-5	1,2-Dichloropropane	10.9		1.0	0.22
541-73-1	1,3-Dichlorobenzene	9.83		1.0	0.17
142-28-9	1,3-Dichloropropane	9.24		1.0	0.18
106-46-7	1,4-Dichlorobenzene	10.1		1.0	0.16
594-20-7	2,2-Dichloropropane	12.7		1.0	0.26
78-93-3	2-Butanone (MEK)	16.8		10	4.1
110-75-8	2-Chloroethyl vinyl ether	10.0		10	1.2
95-49-8	2-Chlorotoluene	10.3		1.0	0.20
591-78-6	2-Hexanone	18.7		10	3.9
106-43-4	4-Chlorotoluene	10.2		1.0	0.22
99-87-6	4-Isopropyltoluene	10.7		1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	18.8		10	3.6
67-64-1	Acetone	16.1		10	3.4
71-43-2	Benzene	11.3		1.0	0.24
108-86-1	Bromobenzene	9.74		1.0	0.12
75-25-2	Bromoform	8.93		1.0	0.56
74-83-9	Bromomethane	8.94		1.0	0.63
75-15-0	Carbon disulfide	12.8		1.0	0.28
56-23-5	Carbon tetrachloride	10.4		1.0	0.17
108-90-7	Chlorobenzene	10.3		1.0	0.19
124-48-1	Chlorodibromomethane	9.60		1.0	0.43
75-00-3	Chloroethane	8.76		1.0	0.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42580-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-149741/4

Matrix: Water | Lab File ID: UXR6217.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/02/2014 11:19

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.: 149741 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	10.4		1.0	0.21
74-87-3	Chloromethane	11.8		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	11.0		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	10.9		1.0	0.46
74-95-3	Dibromomethane	9.84		1.0	0.17
74-97-5	Bromochloromethane	11.0		1.0	0.25
75-71-8	Dichlorodifluoromethane	7.92		1.0	0.50
75-27-4	Bromodichloromethane	10.2		1.0	0.15
75-65-0	tert-Butyl alcohol	83.8		50	8.7
100-41-4	Ethylbenzene	10.7		1.0	0.23
87-68-3	Hexachlorobutadiene	10.2		1.0	0.35
98-82-8	Isopropylbenzene	10.8		1.0	0.35
1634-04-4	Methyl tert-butyl ether	9.47		1.0	0.16
75-09-2	Methylene Chloride	12.1		1.0	0.28
179601-23-1	m-Xylene & p-Xylene	10.7		2.0	0.22
91-20-3	Naphthalene	7.15		1.0	0.45
104-51-8	n-Butylbenzene	10.6		1.0	0.22
103-65-1	N-Propylbenzene	10.7		1.0	0.40
95-47-6	o-Xylene	11.2		1.0	0.21
135-98-8	sec-Butylbenzene	10.6		1.0	0.48
100-42-5	Styrene	11.7		1.0	0.45
127-18-4	Tetrachloroethene	10.7		1.0	0.20
108-88-3	Toluene	10.6		1.0	0.22
156-60-5	trans-1,2-Dichloroethene	11.2		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	9.47		1.0	0.56
79-01-6	Trichloroethene	10.6		1.0	0.15
75-69-4	Trichlorofluoromethane	8.40		1.0	0.49
108-05-4	Vinyl acetate	6.67		2.0	0.41
75-01-4	Vinyl chloride	10.0		1.0	0.29
1330-20-7	Xylenes, Total	21.9		2.0	0.43
98-06-6	tert-Butylbenzene	10.5		1.0	0.41
106-93-4	1,2-Dibromoethane	9.20		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-149741/4

Matrix: Water Lab File ID: UXR6217.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/02/2014 11:19

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.: 149741 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		74-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
460-00-4	4-Bromofluorobenzene (Surr)	100		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		63-129

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Instrument ID: A3UX17 Start Date: 09/09/2014 14:08

Analysis Batch Number: 146190 End Date: 09/09/2014 19:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-146190/1		09/09/2014 14:08	1	BFB262.D	DB-624 0.18(mm)
STD8260 240-146190/2 IC		09/09/2014 14:46	1	UXR5644.D	DB-624 0.18(mm)
STD8260 240-146190/3 IC		09/09/2014 15:09	1	UXR5645.D	DB-624 0.18(mm)
STD8260 240-146190/4 ICIS		09/09/2014 15:32	1	UXR5646.D	DB-624 0.18(mm)
STD8260 240-146190/5 IC		09/09/2014 15:54	1	UXR5647.D	DB-624 0.18(mm)
STD8260 240-146190/6 IC		09/09/2014 16:17	1	UXR5648.D	DB-624 0.18(mm)
STD8260 240-146190/7 IC		09/09/2014 16:40	1	UXR5649.D	DB-624 0.18(mm)
STDA9 240-146190/8 IC		09/09/2014 17:02	1	UXR5650.D	DB-624 0.18(mm)
STDA9 240-146190/9 IC		09/09/2014 17:25	1	UXR5651.D	DB-624 0.18(mm)
STDA9 240-146190/10 IC		09/09/2014 17:47	1	UXR5652.D	DB-624 0.18(mm)
STDA9 240-146190/11 IC		09/09/2014 18:10	1	UXR5653.D	DB-624 0.18(mm)
STDA9 240-146190/12 IC		09/09/2014 18:33	1	UXR5654.D	DB-624 0.18(mm)
STDA9 240-146190/13 IC		09/09/2014 18:55	1	UXR5655.D	DB-624 0.18(mm)
ICV 240-146190/14		09/09/2014 19:18	1	UXR5656.D	DB-624 0.18(mm)
ICV 240-146190/15		09/09/2014 19:40	1	UXR5657.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42580-1

SDG No.:

Instrument ID: A3UX17 Start Date: 10/02/2014 10:05

Analysis Batch Number: 149741 End Date: 10/02/2014 14:40

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-149741/1		10/02/2014 10:05	1	BFB303.D	DB-624 0.18(mm)
CCVIS 240-149741/2		10/02/2014 10:34	1	UXR6215.D	DB-624 0.18(mm)
LCS 240-149741/4		10/02/2014 11:19	1	UXR6217.D	DB-624 0.18(mm)
ZZZZZ		10/02/2014 11:42	1		DB-624 0.18(mm)
MB 240-149741/7		10/02/2014 12:28	1	UXR6220.D	DB-624 0.18(mm)
240-42580-1	TB-100114	10/02/2014 12:50	1	UXR6221.D	DB-624 0.18(mm)
240-42580-2	FRT-1-100114	10/02/2014 13:13	1	UXR6222.D	DB-624 0.18(mm)
240-42580-3	WSP-2-100114	10/02/2014 13:36	1	UXR6223.D	DB-624 0.18(mm)
240-42580-4	WSP-1-100114	10/02/2014 14:40	10000	UXR6225.D	DB-624 0.18(mm)

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-42580 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

1 Day TAT
Results needed by COB 10-2-14

Chain of Custody Record

22

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Stu Cameron	Lab PM: John McFadden	Carrier Tracking No(s):	COC No: 180-19478-4921.2
Client Contact: Mr. Stuart Cameron	Phone: (703) 342-8389	E-Mail: John.McFadden@testamericainc.com		Page: Page [redacted] 1 of 1
Company: Tetra Tech, Inc.		Analysis Requested		Job #: 112IC04769
Address: 20251 Century Blvd Suite 200	Due Date Requested:			Preservation Codes:
City: Germantown	TAT Requested (days): 1 day TAT (Results needed by COB 10/2/14)			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
State, Zip: MD, 20874	PO #:			
Phone: (301) 528-3902	WO #:			Other:
Email: Stuart.Cameron@TetraTech.com	Project #: 112IC04769			
Project Name: MRC Block E MPE System O&M	SSOW#:			
Site:				

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs - TCL	Metals (Cd, Cr, Cu, Pb, Hg, Ni, Ag, Zn)	VOCs - PP (TTO, volatile portion)	SVOCs - PP (With TCDD screen) (TTO, non-volatile)	Pesticides - PP (TTO, non-volatile)	PCBs - PP (TTO, non volatile)	TPH (1664, as SGT-HEM)	pH, BOD, TSS (general chemistry)	COD, TKN, Total P (general chemistry)	Cyanides				Total Number of containers	Special Instructions/Note:
			Preservation Code				A	D	N	N	N	N	S	N	S	B					
TB-100114	10/1/14	~	~	W			3													2	
FRT-1-100114		1120	G	W			3													2	
WSP-2-100114		1125	G	W			3													2	
WSP-1-100114	↓	1130	G	W			3													2	Suspected TCE concentrations expected over 200,000 µg/L

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Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10-1-14 / 1230	Tetra Tech	[signature]	10/1/14 / 1220	TestAmerica
2	[signature]	10-1-2014 / 1515	Company	[signature]	10/02/14 9:25	TAL Canton
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 42580

Client Tetra Tech Site Name

Cooler unpacked by:

Cooler Received on 10/2/14 Opened on 10/2/14

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +2 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C	☐ See Multiple Cooler Form
IR GUN# 4	(CF -2 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C	
IR GUN# 5	(CF 0 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C	
IR GUN# 8	(CF 0 °C)	Observed Cooler Temp. 2.2 °C	Corrected Cooler Temp. 2.2 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC412469
11. Were VOAs on the COC? (Yes) No (NA)
12. Were air bubbles >6 mm in any VOA vials? Yes (No) (NA)
13. Was a trip blank present in the cooler(s)? (Yes) No

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ 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 the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

10/9/2014 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-42919-1

Job Description: MRC Block E MPE System O&M

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
10/17/2014 4:54 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
10/17/2014

cc: Samantha Brenner
Ms. Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MRC Block E MPE System O&M

Report Number: 240-42919-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/10/2014 8:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples WSP-4-100914 (240-42919-1), WSP-3-100914 (240-42919-2), WSP-2-100914 (240-42919-3), WSP-1-100914 (240-42919-4) and TB-100914 (240-42919-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 10/15/2014.

Sample WSP-1-100914 (240-42919-4)[2000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The laboratory control sample (LCS) for batch 151736 recovered outside control limits for the following analyte(s): 2-Chloroethyl vinyl ether. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The continuing calibration verification (CCV) for analytical batch 151736 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detects for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICP)

Samples WSP-4-100914 (240-42919-1), WSP-2-100914 (240-42919-3) and WSP-1-100914 (240-42919-4) were analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 10/13/2014 and analyzed on 10/14/2014.

Zinc was detected in method blank MB 240-151291/1-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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY

Samples WSP-4-100914 (240-42919-1), WSP-2-100914 (240-42919-3) and WSP-1-100914 (240-42919-4) were analyzed for total

mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 10/13/2014 and analyzed on 10/14/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-42919-1	WSP-4-100914	Water	10/09/2014 1040	10/10/2014 0800
240-42919-2	WSP-3-100914	Water	10/09/2014 1045	10/10/2014 0800
240-42919-3	WSP-2-100914	Water	10/09/2014 1050	10/10/2014 0800
240-42919-4	WSP-1-100914	Water	10/09/2014 1055	10/10/2014 0800
240-42919-5TB	TB-100914	Water	10/09/2014 0000	10/10/2014 0800

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-42919-1	**WSP-4-100914**					
Total Recoverable						
Copper		10	J	25	ug/L	6010C
Nickel		52		40	ug/L	6010C
Lead		5.8	J	10	ug/L	6010C
Zinc		200	B	50	ug/L	6010C
240-42919-3	**WSP-2-100914**					
Total Recoverable						
Nickel		9.8	J	40	ug/L	6010C
Zinc		190	B	50	ug/L	6010C
240-42919-4	**WSP-1-100914**					
Trichloroethene		48000		2000	ug/L	8260C
Total Recoverable						
Copper		13	J	25	ug/L	6010C
Nickel		94		40	ug/L	6010C
Lead		3.1	J	10	ug/L	6010C
Zinc		120	B	50	ug/L	6010C

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL CAN	SW846 8260C	
Purge and Trap	TAL CAN		SW846 5030C
Metals (ICP)	TAL CAN	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL CAN		SW846 3005A
Mercury (CVAA)	TAL CAN	SW846 7470A	
Preparation, Mercury	TAL CAN		SW846 7470A

Lab References:

TAL CAN = TestAmerica Canton

Method References:

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Method	Analyst	Analyst ID
SW846 8260C	Evans, Laura	LEE
SW846 6010C	Sutherland, Aaron	ADS
SW846 7470A	Martin, Aaron	AMM2

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **WSP-4-100914**

Lab Sample ID: 240-42919-1 Date Sampled: 10/09/2014 1040
Client Matrix: Water Date Received: 10/10/2014 0800

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1712.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1426			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1426				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U *	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **WSP-4-100914**

Lab Sample ID: 240-42919-1 Date Sampled: 10/09/2014 1040
Client Matrix: Water Date Received: 10/10/2014 0800

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1712.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1426			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1426				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	89		74 - 120
Dibromofluoromethane (Surr)	100		75 - 121
4-Bromofluorobenzene (Surr)	92		66 - 120
1,2-Dichloroethane-d4 (Surr)	98		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **WSP-3-100914**

Lab Sample ID: 240-42919-2 Date Sampled: 10/09/2014 1045
Client Matrix: Water Date Received: 10/10/2014 0800

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1713.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1448			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1448				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U *	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **WSP-3-100914**

Lab Sample ID: 240-42919-2 Date Sampled: 10/09/2014 1045
Client Matrix: Water Date Received: 10/10/2014 0800

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1713.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1448			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1448				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	89		74 - 120
Dibromofluoromethane (Surr)	99		75 - 121
4-Bromofluorobenzene (Surr)	96		66 - 120
1,2-Dichloroethane-d4 (Surr)	98		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **WSP-2-100914**

Lab Sample ID: 240-42919-3 Date Sampled: 10/09/2014 1050
Client Matrix: Water Date Received: 10/10/2014 0800

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1714.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1511			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1511				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U *	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **WSP-2-100914**

Lab Sample ID: 240-42919-3 Date Sampled: 10/09/2014 1050
Client Matrix: Water Date Received: 10/10/2014 0800

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1714.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1511			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1511				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	88		74 - 120
Dibromofluoromethane (Surr)	99		75 - 121
4-Bromofluorobenzene (Surr)	93		66 - 120
1,2-Dichloroethane-d4 (Surr)	98		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **WSP-1-100914**

Lab Sample ID: 240-42919-4 Date Sampled: 10/09/2014 1055
Client Matrix: Water Date Received: 10/10/2014 0800

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1730.D
Dilution:	2000			Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 2112			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 2112				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	560	U	560	2000
1,1,1-Trichloroethane	440	U	440	2000
1,1,2,2-Tetrachloroethane	440	U	440	2000
1,1,2-Trichlorotrifluoroethane	740	U	740	2000
1,1-Dichloroethane	520	U	520	2000
1,1-Dichloroethene	900	U	900	2000
1,1-Dichloropropene	440	U	440	2000
1,2,3-Trichlorobenzene	740	U	740	2000
1,2,3-Trichloropropane	600	U	600	2000
1,2,3-Trimethylbenzene	940	U	940	10000
1,2,4-Trichlorobenzene	640	U	640	2000
1,2,4-Trimethylbenzene	820	U	820	2000
1,2-Dibromo-3-Chloropropane	1600	U	1600	4000
1,2-Dichlorobenzene	340	U	340	2000
1,2-Dichloroethane	400	U	400	2000
1,2-Dichloropropane	440	U	440	2000
1,3-Dichlorobenzene	340	U	340	2000
1,3-Dichloropropane	360	U	360	2000
1,4-Dichlorobenzene	320	U	320	2000
2,2-Dichloropropane	520	U	520	2000
2-Butanone (MEK)	8200	U	8200	20000
2-Chloroethyl vinyl ether	2300	U *	2300	20000
2-Chlorotoluene	400	U	400	2000
2-Hexanone	7800	U	7800	20000
4-Chlorotoluene	440	U	440	2000
4-Isopropyltoluene	860	U	860	2000
4-Methyl-2-pentanone (MIBK)	7200	U	7200	20000
Acetone	6800	U	6800	20000
Benzene	480	U	480	2000
Bromobenzene	240	U	240	2000
Bromoform	1100	U	1100	2000
Bromomethane	1300	U	1300	2000
Carbon disulfide	560	U	560	2000
Carbon tetrachloride	340	U	340	2000
Chlorobenzene	380	U	380	2000
Chlorodibromomethane	860	U	860	2000
Chloroethane	660	U	660	2000
Chloroform	420	U	420	2000
Chloromethane	880	U	880	2000
cis-1,2-Dichloroethene	400	U	400	2000
cis-1,3-Dichloropropene	920	U	920	2000
Dibromomethane	340	U	340	2000
Bromochloromethane	500	U	500	2000
Dichlorodifluoromethane	1000	U	1000	2000
Bromodichloromethane	300	U	300	2000
tert-Butyl alcohol	17000	U	17000	100000

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **WSP-1-100914**

Lab Sample ID: 240-42919-4 Date Sampled: 10/09/2014 1055
Client Matrix: Water Date Received: 10/10/2014 0800

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1730.D
Dilution:	2000			Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 2112			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 2112				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	460	U	460	2000
Hexachlorobutadiene	700	U	700	2000
Diisopropyl ether	380	U	380	20000
Isopropylbenzene	700	U	700	2000
Methyl tert-butyl ether	320	U	320	2000
Methylene Chloride	560	U	560	2000
m-Xylene & p-Xylene	440	U	440	4000
Naphthalene	900	U	900	2000
n-Butylbenzene	440	U	440	2000
N-Propylbenzene	800	U	800	2000
o-Xylene	420	U	420	2000
sec-Butylbenzene	960	U	960	2000
Styrene	900	U	900	2000
Tert-amyl methyl ether	320	U	320	10000
Ethyl tert-butyl ether	400	U	400	10000
Tetrachloroethene	400	U	400	2000
Toluene	440	U	440	2000
trans-1,2-Dichloroethene	520	U	520	2000
trans-1,3-Dichloropropene	1100	U	1100	2000
Trichloroethene	48000		300	2000
Trichlorofluoromethane	980	U	980	2000
Vinyl acetate	820	U	820	4000
Vinyl chloride	580	U	580	2000
Xylenes, Total	860	U	860	4000
tert-Butylbenzene	820	U	820	2000
1,2-Dibromoethane	380	U	380	2000

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	91		74 - 120
Dibromofluoromethane (Surr)	102		75 - 121
4-Bromofluorobenzene (Surr)	90		66 - 120
1,2-Dichloroethane-d4 (Surr)	100		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **TB-100914**

Lab Sample ID: 240-42919-5TB Date Sampled: 10/09/2014 0000
Client Matrix: Water Date Received: 10/10/2014 0800

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1715.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1534			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1534				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U *	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0
tert-Butyl alcohol	8.7	U	8.7	50

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **TB-100914**

Lab Sample ID: 240-42919-5TB Date Sampled: 10/09/2014 0000
Client Matrix: Water Date Received: 10/10/2014 0800

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ1715.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1534			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1534				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	88		74 - 120
Dibromofluoromethane (Surr)	102		75 - 121
4-Bromofluorobenzene (Surr)	92		66 - 120
1,2-Dichloroethane-d4 (Surr)	99		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **WSP-4-100914**

Lab Sample ID: 240-42919-1 Date Sampled: 10/09/2014 1040
Client Matrix: Water Date Received: 10/10/2014 0800

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	240-151680	Instrument ID:	I12
Prep Method:	3005A	Prep Batch:	240-151291	Lab File ID:	I12101414A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 1222			Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 0856				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	0.92	U	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	10	J	1.9	25
Nickel	52		0.76	40
Lead	5.8	J	1.9	10
Zinc	200	B	9.6	50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	240-151689	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-151292	Lab File ID:	101414A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 2055			Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 1145				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.090	U	0.090	0.20

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **WSP-2-100914**

Lab Sample ID: 240-42919-3 Date Sampled: 10/09/2014 1050
Client Matrix: Water Date Received: 10/10/2014 0800

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	240-151680	Instrument ID:	I12
Prep Method:	3005A	Prep Batch:	240-151291	Lab File ID:	I12101414A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 1235			Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 0856				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	0.92	U	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	1.9	U	1.9	25
Nickel	9.8	J	0.76	40
Lead	1.9	U	1.9	10
Zinc	190	B	9.6	50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	240-151689	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-151292	Lab File ID:	101414A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 2057			Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 1145				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.090	U	0.090	0.20

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Client Sample ID: **WSP-1-100914**

Lab Sample ID: 240-42919-4 Date Sampled: 10/09/2014 1055
Client Matrix: Water Date Received: 10/10/2014 0800

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	240-151680	Instrument ID:	I12
Prep Method:	3005A	Prep Batch:	240-151291	Lab File ID:	I12101414A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 1239			Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 0856				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	0.92	U	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	13	J	1.9	25
Nickel	94		0.76	40
Lead	3.1	J	1.9	10
Zinc	120	B	9.6	50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	240-151689	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-151292	Lab File ID:	101414A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 2059			Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 1145				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.090	U	0.090	0.20

Client: Tetra Tech, Inc.

Job Number: 240-42919-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-42919-1	WSP-4-100914	100	98	89	92
240-42919-2	WSP-3-100914	99	98	89	96
240-42919-3	WSP-2-100914	99	98	88	93
240-42919-4	WSP-1-100914	102	100	91	90
240-42919-5	TB-100914	102	99	88	92
MB 240-151736/37		98	95	87	91
LCS 240-151736/4		95	95	84	92
240-42919-4 MS	WSP-1-100914 MS	94	96	82	92
240-42919-4 MSD	WSP-1-100914 MSD	96	103	85	93

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Method Blank - Batch: 240-151736

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-151736/37	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1709.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1317	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1317				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.37	U	0.37	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.22	U	0.22	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.30	U	0.30	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,3-Dichloropropane	0.18	U	0.18	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	4.1	U	4.1	10
2-Chloroethyl vinyl ether	1.2	U	1.2	10
2-Chlorotoluene	0.20	U	0.20	1.0
2-Hexanone	3.9	U	3.9	10
4-Chlorotoluene	0.22	U	0.22	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	3.6	U	3.6	10
Acetone	3.4	U	3.4	10
Benzene	0.24	U	0.24	1.0
Bromobenzene	0.12	U	0.12	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	1.0
Carbon disulfide	0.28	U	0.28	1.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	1.0
Chloroform	0.21	U	0.21	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.20	U	0.20	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.17	U	0.17	1.0
Bromochloromethane	0.25	U	0.25	1.0
Dichlorodifluoromethane	0.50	U	0.50	1.0
Bromodichloromethane	0.15	U	0.15	1.0

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Method Blank - Batch: 240-151736

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-151736/37	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1709.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1317	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1317				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
tert-Butyl alcohol	8.7	U	8.7	50
Ethylbenzene	0.23	U	0.23	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.19	U	0.19	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.16	U	0.16	1.0
Methylene Chloride	0.28	U	0.28	1.0
m-Xylene & p-Xylene	0.22	U	0.22	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.22	U	0.22	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.21	U	0.21	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.16	U	0.16	5.0
Ethyl tert-butyl ether	0.20	U	0.20	5.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.43	U	0.43	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.19	U	0.19	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	87	74 - 120
Dibromofluoromethane (Surr)	98	75 - 121
4-Bromofluorobenzene (Surr)	91	66 - 120
1,2-Dichloroethane-d4 (Surr)	95	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Lab Control Sample - Batch: 240-151736

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-151736/4	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1704.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1124	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1124				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	10.3	103	72 - 120	
1,1,1-Trichloroethane	10.0	10.9	109	74 - 120	
1,1,2,2-Tetrachloroethane	10.0	11.5	115	68 - 120	
1,1,2-Trichlorotrifluoroethane	10.0	9.99	100	74 - 151	
1,1-Dichloroethane	10.0	11.0	110	80 - 120	
1,1-Dichloroethene	10.0	10.4	104	78 - 131	
1,1-Dichloropropene	10.0	11.8	118	80 - 120	
1,2,3-Trichlorobenzene	10.0	9.45	95	54 - 126	
1,2,3-Trichloropropane	10.0	12.5	125	73 - 129	
1,2,4-Trichlorobenzene	10.0	8.94	89	48 - 135	
1,2,4-Trimethylbenzene	10.0	10.2	102	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	10.5	105	42 - 136	
1,2-Dichlorobenzene	10.0	9.74	97	80 - 120	
1,2-Dichloroethane	10.0	11.6	116	71 - 127	
1,2-Dichloropropane	10.0	11.1	111	80 - 120	
1,3-Dichlorobenzene	10.0	9.81	98	80 - 120	
1,3-Dichloropropane	10.0	9.91	99	79 - 120	
1,4-Dichlorobenzene	10.0	9.83	98	80 - 120	
2,2-Dichloropropane	10.0	10.6	106	50 - 129	
2-Butanone (MEK)	20.0	21.5	108	60 - 126	
2-Chloroethyl vinyl ether	12.0	16.8	140	52 - 131	*
2-Chlorotoluene	10.0	11.4	114	76 - 120	
2-Hexanone	20.0	17.4	87	55 - 133	
4-Chlorotoluene	10.0	11.0	110	77 - 120	
4-Isopropyltoluene	10.0	10.1	101	74 - 120	
4-Methyl-2-pentanone (MIBK)	20.0	24.1	121	63 - 128	
Acetone	20.0	18.6	93	43 - 136	
Benzene	10.0	10.7	107	80 - 120	
Bromobenzene	10.0	11.5	115	76 - 120	
Bromoform	10.0	10.7	107	40 - 131	
Bromomethane	10.0	9.05	90	11 - 185	
Carbon disulfide	10.0	11.1	111	62 - 142	
Carbon tetrachloride	10.0	11.5	115	66 - 128	
Chlorobenzene	10.0	10.3	103	80 - 120	
Chlorodibromomethane	10.0	10.4	104	64 - 120	
Chloroethane	10.0	8.44	84	25 - 153	
Chloroform	10.0	10.7	107	79 - 120	
Chloromethane	10.0	9.31	93	44 - 126	
cis-1,2-Dichloroethene	10.0	10.7	107	80 - 120	
cis-1,3-Dichloropropene	10.0	11.8	118	61 - 120	
Dibromomethane	10.0	11.5	115	80 - 120	
Bromochloromethane	10.0	10.8	108	77 - 120	
Dichlorodifluoromethane	10.0	7.46	75	19 - 129	
Bromodichloromethane	10.0	11.4	114	72 - 121	
tert-Butyl alcohol	100	124	124	70 - 130	
Ethylbenzene	10.0	10.3	103	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Lab Control Sample - Batch: 240-151736

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-151736/4	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1704.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 1124	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 1124				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorobutadiene	10.0	8.79	88	36 - 134	
Isopropylbenzene	10.0	9.90	99	75 - 120	
Methyl tert-butyl ether	10.0	11.5	115	52 - 144	
Methylene Chloride	10.0	11.0	110	66 - 131	
m-Xylene & p-Xylene	10.0	10.4	104	80 - 120	
Naphthalene	10.0	9.74	97	32 - 141	
n-Butylbenzene	10.0	9.58	96	66 - 125	
N-Propylbenzene	10.0	11.3	113	74 - 121	
o-Xylene	10.0	10.4	104	80 - 120	
sec-Butylbenzene	10.0	10.1	101	70 - 120	
Styrene	10.0	10.3	103	79 - 120	
Tetrachloroethene	10.0	9.39	94	79 - 120	
Toluene	10.0	9.54	95	80 - 120	
trans-1,2-Dichloroethene	10.0	10.8	108	80 - 120	
trans-1,3-Dichloropropene	10.0	10.5	105	58 - 120	
Trichloroethene	10.0	11.0	110	76 - 120	
Trichlorofluoromethane	10.0	10.3	103	49 - 157	
Vinyl acetate	8.00	7.88	98	46 - 161	
Vinyl chloride	10.0	9.00	90	53 - 127	
Xylenes, Total	20.0	20.8	104	80 - 120	
tert-Butylbenzene	10.0	10.0	100	71 - 120	
1,2-Dibromoethane	10.0	9.91	99	79 - 120	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	84	74 - 120
Dibromofluoromethane (Surr)	95	75 - 121
4-Bromofluorobenzene (Surr)	92	66 - 120
1,2-Dichloroethane-d4 (Surr)	95	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-151736

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42919-4	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1731.D
Dilution:	2000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 2135			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 2135				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-42919-4	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1732.D
Dilution:	2000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 2158			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 2158				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	101	101	64 - 120	0	30		
1,1,1-Trichloroethane	107	106	68 - 121	1	30		
1,1,2,2-Tetrachloroethane	108	119	63 - 122	10	30		
1,1,2-Trichlorotrifluoroethane	85	87	70 - 152	1	30		
1,1-Dichloroethane	110	110	79 - 120	0	30		
1,1-Dichloroethene	95	102	74 - 135	7	30		
1,1-Dichloropropene	115	115	80 - 120	0	30		
1,2,3-Trichlorobenzene	86	91	45 - 129	6	30		
1,2,3-Trichloropropane	119	120	67 - 132	1	30		
1,2,4-Trichlorobenzene	79	84	38 - 138	6	30		
1,2,4-Trimethylbenzene	93	99	67 - 124	6	30		
1,2-Dibromo-3-Chloropropane	97	101	32 - 139	4	30		
1,2-Dichlorobenzene	93	97	75 - 120	5	30		
1,2-Dichloroethane	121	119	68 - 129	2	30		
1,2-Dichloropropane	116	115	78 - 120	1	30		
1,3-Dichlorobenzene	91	95	73 - 120	5	30		
1,3-Dichloropropane	102	102	74 - 120	1	30		
1,4-Dichlorobenzene	91	99	75 - 120	8	30		
2,2-Dichloropropane	94	95	38 - 127	0	30		
2-Butanone (MEK)	109	111	54 - 129	2	30		
2-Chloroethyl vinyl ether	125	136	10 - 150	9	30		
2-Chlorotoluene	106	113	69 - 120	7	30		
2-Hexanone	88	85	47 - 139	4	30		
4-Chlorotoluene	101	106	71 - 120	5	30		
4-Isopropyltoluene	89	92	64 - 122	4	30		
4-Methyl-2-pentanone (MIBK)	117	120	56 - 131	3	30		
Acetone	96	94	33 - 145	1	30		
Benzene	108	107	72 - 121	1	30		
Bromobenzene	107	110	71 - 120	3	30		
Bromoform	102	100	32 - 128	2	30		
Bromomethane	72	77	10 - 186	6	30		
Carbon disulfide	105	105	57 - 147	1	30		
Carbon tetrachloride	105	107	59 - 129	1	30		

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-151736

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42919-4	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1731.D
Dilution:	2000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 2135			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 2135				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-42919-4	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1732.D
Dilution:	2000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 2158			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 2158				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chlorobenzene	102	103	80 - 120	1	30		
Chlorodibromomethane	99	100	56 - 120	1	30		
Chloroethane	72	75	21 - 165	3	30		
Chloroform	111	108	76 - 120	2	30		
Chloromethane	90	89	33 - 132	1	30		
cis-1,2-Dichloroethene	107	106	70 - 120	1	30		
cis-1,3-Dichloropropene	110	113	51 - 120	2	30		
Dibromomethane	118	114	77 - 121	3	30		
Bromochloromethane	109	107	73 - 121	1	30		
Dichlorodifluoromethane	64	61	17 - 128	4	30		
Bromodichloromethane	112	110	67 - 120	2	30		
tert-Butyl alcohol	115	124	70 - 130	8	30		
Ethylbenzene	99	101	75 - 120	2	30		
Hexachlorobutadiene	70	77	27 - 132	10	30		
Isopropylbenzene	97	99	68 - 120	2	30		
Methyl tert-butyl ether	114	118	46 - 144	3	30		
Methylene Chloride	109	111	63 - 128	1	30		
m-Xylene & p-Xylene	102	104	75 - 120	1	30		
Naphthalene	84	91	15 - 158	8	30		
n-Butylbenzene	84	89	56 - 127	5	30		
N-Propylbenzene	100	110	64 - 124	9	30		
o-Xylene	105	103	76 - 120	2	30		
sec-Butylbenzene	93	97	60 - 120	4	30		
Styrene	105	104	71 - 120	1	30		
Tetrachloroethene	92	92	70 - 120	1	30		
Toluene	96	96	78 - 120	0	30		
trans-1,2-Dichloroethene	106	106	80 - 120	0	30		
trans-1,3-Dichloropropene	102	101	46 - 120	0	30		
Trichloroethene	85	100	66 - 120	5	30		
Trichlorofluoromethane	88	87	46 - 157	1	30		
Vinyl acetate	91	90	43 - 157	0	30		
Vinyl chloride	86	87	49 - 130	2	30		
Xylenes, Total	104	103	76 - 120	0	30		

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-151736

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42919-4	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1731.D
Dilution:	2000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 2135			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 2135				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-42919-4	Analysis Batch:	240-151736	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1732.D
Dilution:	2000	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/15/2014 2158			Final Weight/Volume:	5 mL
Prep Date:	10/15/2014 2158				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
tert-Butylbenzene	89	95	61 - 120	6	30		
1,2-Dibromoethane	98	101	74 - 120	3	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	82	85	74 - 120
Dibromofluoromethane (Surr)	94	96	75 - 121
4-Bromofluorobenzene (Surr)	92	93	66 - 120
1,2-Dichloroethane-d4 (Surr)	96	103	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-151736

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42919-4	Units:	ug/L	MSD Lab Sample ID:	240-42919-4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	2000			Dilution:	2000
Analysis Date:	10/15/2014 2135			Analysis Date:	10/15/2014 2158
Prep Date:	10/15/2014 2135			Prep Date:	10/15/2014 2158
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1,1,2-Tetrachloroethane	560	U	20000	20000	20300	20200
1,1,1-Trichloroethane	440	U	20000	20000	21400	21200
1,1,2,2-Tetrachloroethane	440	U	20000	20000	21600	23900
1,1,2-Trichlorotrifluoroethane	740	U	20000	20000	17100	17300
1,1-Dichloroethane	520	U	20000	20000	22000	22000
1,1-Dichloroethene	900	U	20000	20000	19000	20300
1,1-Dichloropropene	440	U	20000	20000	23000	22900
1,2,3-Trichlorobenzene	740	U	20000	20000	17100	18300
1,2,3-Trichloropropane	600	U	20000	20000	23800	23900
1,2,4-Trichlorobenzene	640	U	20000	20000	15800	16800
1,2,4-Trimethylbenzene	820	U	20000	20000	18700	19800
1,2-Dibromo-3-Chloropropane	1600	U	20000	20000	19500	20200
1,2-Dichlorobenzene	340	U	20000	20000	18500	19400
1,2-Dichloroethane	400	U	20000	20000	24200	23900
1,2-Dichloropropane	440	U	20000	20000	23200	22900
1,3-Dichlorobenzene	340	U	20000	20000	18200	19100
1,3-Dichloropropane	360	U	20000	20000	20500	20300
1,4-Dichlorobenzene	320	U	20000	20000	18200	19700
2,2-Dichloropropane	520	U	20000	20000	18900	18900
2-Butanone (MEK)	8200	U	40000	40000	43500	44200
2-Chloroethyl vinyl ether	2300	U	24000	24000	30000	32700
2-Chlorotoluene	400	U	20000	20000	21100	22600
2-Hexanone	7800	U	40000	40000	35400	33900
4-Chlorotoluene	440	U	20000	20000	20200	21200
4-Isopropyltoluene	860	U	20000	20000	17800	18500
4-Methyl-2-pentanone (MIBK)	7200	U	40000	40000	46800	48000
Acetone	6800	U	40000	40000	38200	37700
Benzene	480	U	20000	20000	21500	21400
Bromobenzene	240	U	20000	20000	21400	22000
Bromoform	1100	U	20000	20000	20400	20000
Bromomethane	1300	U	20000	20000	14400	15300
Carbon disulfide	560	U	20000	20000	21000	20900
Carbon tetrachloride	340	U	20000	20000	21100	21300
Chlorobenzene	380	U	20000	20000	20300	20600
Chlorodibromomethane	860	U	20000	20000	19900	20100
Chloroethane	660	U	20000	20000	14500	14900
Chloroform	420	U	20000	20000	22100	21600
Chloromethane	880	U	20000	20000	18000	17800
cis-1,2-Dichloroethene	400	U	20000	20000	21500	21200
cis-1,3-Dichloropropene	920	U	20000	20000	22000	22500
Dibromomethane	340	U	20000	20000	23600	22900
Bromochloromethane	500	U	20000	20000	21700	21400
Dichlorodifluoromethane	1000	U	20000	20000	12700	12300

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-151736

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-42919-4	Units:	ug/L	MSD Lab Sample ID:	240-42919-4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	2000			Dilution:	2000
Analysis Date:	10/15/2014 2135			Analysis Date:	10/15/2014 2158
Prep Date:	10/15/2014 2135			Prep Date:	10/15/2014 2158
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Bromodichloromethane	300	U	20000	20000	22500	22100
tert-Butyl alcohol	17000	U	200000	200000	229000	248000
Ethylbenzene	460	U	20000	20000	19800	20200
Hexachlorobutadiene	700	U	20000	20000	13900	15300
Isopropylbenzene	700	U	20000	20000	19400	19800
Methyl tert-butyl ether	320	U	20000	20000	22800	23500
Methylene Chloride	560	U	20000	20000	21800	22100
m-Xylene & p-Xylene	440	U	20000	20000	20500	20700
Naphthalene	900	U	20000	20000	16800	18100
n-Butylbenzene	440	U	20000	20000	16800	17700
N-Propylbenzene	800	U	20000	20000	20000	22000
o-Xylene	420	U	20000	20000	20900	20600
sec-Butylbenzene	960	U	20000	20000	18600	19300
Styrene	900	U	20000	20000	21000	20900
Tetrachloroethene	400	U	20000	20000	18300	18500
Toluene	440	U	20000	20000	19200	19100
trans-1,2-Dichloroethene	520	U	20000	20000	21300	21200
trans-1,3-Dichloropropene	1100	U	20000	20000	20400	20300
Trichloroethene	48000		20000	20000	65000	68000
Trichlorofluoromethane	980	U	20000	20000	17500	17400
Vinyl acetate	820	U	16000	16000	14500	14500
Vinyl chloride	580	U	20000	20000	17100	17400
Xylenes, Total	860	U	40000	40000	41400	41300
tert-Butylbenzene	820	U	20000	20000	17900	19100
1,2-Dibromoethane	380	U	20000	20000	19600	20200

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Method Blank - Batch: 240-151291

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 240-151291/1-A	Analysis Batch:	240-151680	Instrument ID:	I12
Client Matrix:	Water	Prep Batch:	240-151291	Lab File ID:	I12101414A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 1154	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 0856				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Silver	0.92	U	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	1.9	U	1.9	25
Nickel	0.76	U	0.76	40
Lead	1.9	U	1.9	10
Zinc	9.74	J	9.6	50

Lab Control Sample - Batch: 240-151291

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 240-151291/2-A	Analysis Batch:	240-151680	Instrument ID:	I12
Client Matrix:	Water	Prep Batch:	240-151291	Lab File ID:	I12101414A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 1158	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 0856				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	54.2	108	80 - 120	
Cadmium	50.0	53.3	107	80 - 120	
Chromium	200	204	102	80 - 120	
Copper	250	265	106	80 - 120	
Nickel	500	507	101	80 - 120	
Lead	500	505	101	80 - 120	
Zinc	500	526	105	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-151291

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	240-42925-E-2-B MS	Analysis Batch:	240-151680	Instrument ID:	I12
Client Matrix:	Water	Prep Batch:	240-151291	Lab File ID:	I12101414A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 1215			Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 0856				
Leach Date:	N/A				

MSD Lab Sample ID:	240-42925-E-2-C MSD	Analysis Batch:	240-151680	Instrument ID:	I12
Client Matrix:	Water	Prep Batch:	240-151291	Lab File ID:	I12101414A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 1219			Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 0856				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Silver	109	111	75 - 125	1	20		
Cadmium	108	108	75 - 125	0	20		
Chromium	101	102	75 - 125	2	20		
Copper	106	106	75 - 125	0	20		
Nickel	103	103	75 - 125	0	20		
Lead	99	98	75 - 125	0	20		
Zinc	105	106	75 - 125	0	20		

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-151291

Method: 6010C
Preparation: 3005A
Total Recoverable

MS Lab Sample ID:	240-42925-E-2-B MS	Units:	ug/L
Client Matrix:	Water		
Dilution:	1.0		
Analysis Date:	10/14/2014 1215		
Prep Date:	10/13/2014 0856		
Leach Date:	N/A		

MSD Lab Sample ID:	240-42925-E-2-C MSD
Client Matrix:	Water
Dilution:	1.0
Analysis Date:	10/14/2014 1219
Prep Date:	10/13/2014 0856
Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Silver	0.92	U	50.0	50.0	54.7	55.5
Cadmium	0.26	J	50.0	50.0	54.4	54.3
Chromium	0.55	U	200	200	201	205
Copper	2.6	J	250	250	268	268
Nickel	3.1	J	500	500	518	517
Lead	1.9	U	500	500	493	492
Zinc	11	J	500	500	538	539

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Serial Dilution - Batch: 240-151291

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	240-42925-E-2-A SD ^5	Analysis Batch:	240-151680	Instrument ID:	I12
Client Matrix:	Water	Prep Batch:	240-151291	Lab File ID:	I12101414A.asc
Dilution:	5.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 1207	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 0856				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	%Diff	Limit	Qual
Silver	0.92	U	4.6	NC	10	U
Cadmium	0.26	J	0.70	NC	10	U
Chromium	0.55	U	2.8	NC	10	U
Copper	2.6	J	26.5	NC	10	J
Nickel	3.1	J	3.8	NC	10	U
Lead	1.9	U	9.5	NC	10	U
Zinc	11	J	261	NC	10	

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Method Blank - Batch: 240-151292

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 240-151292/1-A	Analysis Batch:	240-151689	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-151292	Lab File ID:	101414A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 2032	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 1145				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.090	U	0.090	0.20

Lab Control Sample - Batch: 240-151292

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 240-151292/2-A	Analysis Batch:	240-151689	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-151292	Lab File ID:	101414A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 2034	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 1145				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	5.22	104	81 - 123	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-151292

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	240-42925-E-2-E MS	Analysis Batch:	240-151689	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-151292	Lab File ID:	101414A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 2036			Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 1145				
Leach Date:	N/A				

MSD Lab Sample ID:	240-42925-E-2-F MSD	Analysis Batch:	240-151689	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-151292	Lab File ID:	101414A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	10/14/2014 2042			Final Weight/Volume:	50 mL
Prep Date:	10/13/2014 1145				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	103	104	69 - 134	1	20		

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-151292

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	240-42925-E-2-E MS	Units:	ug/L	MSD Lab Sample ID:	240-42925-E-2-F MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/14/2014 2036			Analysis Date:	10/14/2014 2042
Prep Date:	10/13/2014 1145			Prep Date:	10/13/2014 1145
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.090	U	1.00	1.00	1.03	1.04

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Tetra Tech, Inc. Job Number: 240-42919-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-151736					
LCS 240-151736/4	Lab Control Sample	T	Water	8260C	
MB 240-151736/37	Method Blank	T	Water	8260C	
240-42919-1	WSP-4-100914	T	Water	8260C	
240-42919-2	WSP-3-100914	T	Water	8260C	
240-42919-3	WSP-2-100914	T	Water	8260C	
240-42919-4	WSP-1-100914	T	Water	8260C	
240-42919-4MS	Matrix Spike	T	Water	8260C	
240-42919-4MSD	Matrix Spike Duplicate	T	Water	8260C	
240-42919-5TB	TB-100914	T	Water	8260C	

Report Basis
T = Total

Metals					
Prep Batch: 240-151291					
LCS 240-151291/2-A	Lab Control Sample	R	Water	3005A	
MB 240-151291/1-A	Method Blank	R	Water	3005A	
240-42919-1	WSP-4-100914	R	Water	3005A	
240-42919-3	WSP-2-100914	R	Water	3005A	
240-42919-4	WSP-1-100914	R	Water	3005A	
240-42925-E-2-B MS	Matrix Spike	R	Water	3005A	
240-42925-E-2-C MSD	Matrix Spike Duplicate	R	Water	3005A	
Prep Batch: 240-151292					
LCS 240-151292/2-A	Lab Control Sample	T	Water	7470A	
MB 240-151292/1-A	Method Blank	T	Water	7470A	
240-42919-1	WSP-4-100914	T	Water	7470A	
240-42919-3	WSP-2-100914	T	Water	7470A	
240-42919-4	WSP-1-100914	T	Water	7470A	
240-42925-E-2-E MS	Matrix Spike	T	Water	7470A	
240-42925-E-2-F MSD	Matrix Spike Duplicate	T	Water	7470A	
Analysis Batch:240-151680					
LCS 240-151291/2-A	Lab Control Sample	R	Water	6010C	240-151291
MB 240-151291/1-A	Method Blank	R	Water	6010C	240-151291
240-42919-1	WSP-4-100914	R	Water	6010C	240-151291
240-42919-3	WSP-2-100914	R	Water	6010C	240-151291
240-42919-4	WSP-1-100914	R	Water	6010C	240-151291
240-42925-E-2-B MS	Matrix Spike	R	Water	6010C	240-151291
240-42925-E-2-C MSD	Matrix Spike Duplicate	R	Water	6010C	240-151291
Analysis Batch:240-151689					
LCS 240-151292/2-A	Lab Control Sample	T	Water	7470A	240-151292
MB 240-151292/1-A	Method Blank	T	Water	7470A	240-151292
240-42919-1	WSP-4-100914	T	Water	7470A	240-151292

Client: Tetra Tech, Inc. Job Number: 240-42919-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:240-151689					
240-42919-3	WSP-2-100914	T	Water	7470A	240-151292
240-42919-4	WSP-1-100914	T	Water	7470A	240-151292
240-42925-E-2-E MS	Matrix Spike	T	Water	7470A	240-151292
240-42925-E-2-F MSD	Matrix Spike Duplicate	T	Water	7470A	240-151292

Report Basis
R = Total Recoverable
T = Total

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Laboratory Chronicle

Lab ID: 240-42919-1 **Client ID:** WSP-4-100914

Sample Date/Time: 10/09/2014 10:40 Received Date/Time: 10/10/2014 08:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42919-B-1		240-151736		10/15/2014 14:26	1	TAL CAN	LEE
A:8260C	240-42919-B-1		240-151736		10/15/2014 14:26	1	TAL CAN	LEE
P:3005A	240-42919-E-1-A		240-151680	240-151291	10/13/2014 08:56	1	TAL CAN	WAL
A:6010C	240-42919-E-1-A		240-151680	240-151291	10/14/2014 12:22	1	TAL CAN	ADS
P:7470A	240-42919-E-1-B		240-151689	240-151292	10/13/2014 11:45	1	TAL CAN	WAL
A:7470A	240-42919-E-1-B		240-151689	240-151292	10/14/2014 20:55	1	TAL CAN	AMM2

Lab ID: 240-42919-2 **Client ID:** WSP-3-100914

Sample Date/Time: 10/09/2014 10:45 Received Date/Time: 10/10/2014 08:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42919-B-2		240-151736		10/15/2014 14:48	1	TAL CAN	LEE
A:8260C	240-42919-B-2		240-151736		10/15/2014 14:48	1	TAL CAN	LEE

Lab ID: 240-42919-3 **Client ID:** WSP-2-100914

Sample Date/Time: 10/09/2014 10:50 Received Date/Time: 10/10/2014 08:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42919-B-3		240-151736		10/15/2014 15:11	1	TAL CAN	LEE
A:8260C	240-42919-B-3		240-151736		10/15/2014 15:11	1	TAL CAN	LEE
P:3005A	240-42919-E-3-A		240-151680	240-151291	10/13/2014 08:56	1	TAL CAN	WAL
A:6010C	240-42919-E-3-A		240-151680	240-151291	10/14/2014 12:35	1	TAL CAN	ADS
P:7470A	240-42919-E-3-B		240-151689	240-151292	10/13/2014 11:45	1	TAL CAN	WAL
A:7470A	240-42919-E-3-B		240-151689	240-151292	10/14/2014 20:57	1	TAL CAN	AMM2

Lab ID: 240-42919-4 **Client ID:** WSP-1-100914

Sample Date/Time: 10/09/2014 10:55 Received Date/Time: 10/10/2014 08:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42919-B-4		240-151736		10/15/2014 21:12	2000	TAL CAN	LEE
A:8260C	240-42919-B-4		240-151736		10/15/2014 21:12	2000	TAL CAN	LEE
P:3005A	240-42919-D-4-A		240-151680	240-151291	10/13/2014 08:56	1	TAL CAN	WAL
A:6010C	240-42919-D-4-A		240-151680	240-151291	10/14/2014 12:39	1	TAL CAN	ADS
P:7470A	240-42919-D-4-B		240-151689	240-151292	10/13/2014 11:45	1	TAL CAN	WAL
A:7470A	240-42919-D-4-B		240-151689	240-151292	10/14/2014 20:59	1	TAL CAN	AMM2

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Laboratory Chronicle

Lab ID: 240-42919-4 MS **Client ID:** WSP-1-100914

Sample Date/Time: 10/09/2014 10:55 Received Date/Time: 10/10/2014 08:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42919-B-4 MS		240-151736		10/15/2014 21:35	2000	TAL CAN	LEE
A:8260C	240-42919-B-4 MS		240-151736		10/15/2014 21:35	2000	TAL CAN	LEE

Lab ID: 240-42919-4 MSD **Client ID:** WSP-1-100914

Sample Date/Time: 10/09/2014 10:55 Received Date/Time: 10/10/2014 08:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42919-B-4 MSD		240-151736		10/15/2014 21:58	2000	TAL CAN	LEE
A:8260C	240-42919-B-4 MSD		240-151736		10/15/2014 21:58	2000	TAL CAN	LEE

Lab ID: 240-42919-5 **Client ID:** TB-100914

Sample Date/Time: 10/09/2014 00:00 Received Date/Time: 10/10/2014 08:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-42919-A-5		240-151736		10/15/2014 15:34	1	TAL CAN	LEE
A:8260C	240-42919-A-5		240-151736		10/15/2014 15:34	1	TAL CAN	LEE

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 240-151736/37		240-151736		10/15/2014 13:17	1	TAL CAN	LEE
A:8260C	MB 240-151736/37		240-151736		10/15/2014 13:17	1	TAL CAN	LEE
P:3005A	MB 240-151291/1-A		240-151680	240-151291	10/13/2014 08:56	1	TAL CAN	WAL
A:6010C	MB 240-151291/1-A		240-151680	240-151291	10/14/2014 11:54	1	TAL CAN	ADS
P:7470A	MB 240-151292/1-A		240-151689	240-151292	10/13/2014 11:45	1	TAL CAN	WAL
A:7470A	MB 240-151292/1-A		240-151689	240-151292	10/14/2014 20:32	1	TAL CAN	AMM2

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 240-151736/4		240-151736		10/15/2014 11:24	1	TAL CAN	LEE
A:8260C	LCS 240-151736/4		240-151736		10/15/2014 11:24	1	TAL CAN	LEE
P:3005A	LCS 240-151291/2-A		240-151680	240-151291	10/13/2014 08:56	1	TAL CAN	WAL
A:6010C	LCS 240-151291/2-A		240-151680	240-151291	10/14/2014 11:58	1	TAL CAN	ADS
P:7470A	LCS 240-151292/2-A		240-151689	240-151292	10/13/2014 11:45	1	TAL CAN	WAL
A:7470A	LCS 240-151292/2-A		240-151689	240-151292	10/14/2014 20:34	1	TAL CAN	AMM2

Client: Tetra Tech, Inc. Job Number: 240-42919-1

Laboratory Chronicle

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 10/09/2014 14:05 Received Date/Time: 10/10/2014 08:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	240-42925-E-2-B MS		240-151680	240-151291	10/13/2014 08:56	1	TAL CAN	WAL
A:6010C	240-42925-E-2-B MS		240-151680	240-151291	10/14/2014 12:15	1	TAL CAN	ADS
P:7470A	240-42925-E-2-E MS		240-151689	240-151292	10/13/2014 11:45	1	TAL CAN	WAL
A:7470A	240-42925-E-2-E MS		240-151689	240-151292	10/14/2014 20:36	1	TAL CAN	AMM2

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 10/09/2014 14:05 Received Date/Time: 10/10/2014 08:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	240-42925-E-2-C MSD		240-151680	240-151291	10/13/2014 08:56	1	TAL CAN	WAL
A:6010C	240-42925-E-2-C MSD		240-151680	240-151291	10/14/2014 12:19	1	TAL CAN	ADS
P:7470A	240-42925-E-2-F MSD		240-151689	240-151292	10/13/2014 11:45	1	TAL CAN	WAL
A:7470A	240-42925-E-2-F MSD		240-151689	240-151292	10/14/2014 20:42	1	TAL CAN	AMM2

Lab ID: SD **Client ID: N/A**

Sample Date/Time: 10/09/2014 14:05 Received Date/Time: 10/10/2014 08:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3005A	240-42925-E-2-A SD ^5		240-151680	240-151291	10/13/2014 08:56	5	TAL CAN	WAL
A:6010C	240-42925-E-2-A SD ^5		240-151680	240-151291	10/14/2014 12:07	5	TAL CAN	ADS

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
K2S2O8_00014	07/27/16	09/30/14	DIWATER, Lot DIWATER	2.5 L	MTK2S208_00014	125 g	Potassium persulfate	0.05 g/g
.MTK2S208_00014	07/27/16		Macron, Lot 0000046094		(Purchased Reagent)		Potassium persulfate	1 g/g
MT6500ICV_00021	11/14/14	09/17/14	DIWATER, Lot DIWATER	1000 mL	MTTRICV3_00004	6 mL	Chromium	1500 ug/L
							Copper	1500 ug/L
							Nickel	1500 ug/L
							Zinc	1500 ug/L
					MTTRICV5_00010	1.5 mL	Cadmium	375 ug/L
							Lead	375 ug/L
					MTTRICVAG_00004	7.5 mL	Silver	750 ug/L
.MTTRICV3_00004	06/01/15		CPI, Lot 1060597		(Purchased Reagent)		Chromium	250 mg/L
							Copper	250 mg/L
							Nickel	250 mg/L
							Zinc	250 mg/L
.MTTRICV5_00010	06/01/15		CPI, Lot 1060598		(Purchased Reagent)		Cadmium	250 ug/mL
							Lead	250 ug/mL
.MTTRICVAG_00004	01/02/15		CPI, Lot 1048231		(Purchased Reagent)		Silver	100 mg/L
MTAGSPIKEW_00042	03/09/15	09/09/14	DIWATER, Lot DIWATER	1000 mL	MTAG_00005	2.5 mL	Silver	2500 ug/L
					MTTMHNO3_00036	50 mL	Nitric acid	50000000 ug/L
.MTAG_00005	12/27/15		HIGH PURITY STANDARDS, Lot 1401302		(Purchased Reagent)		Silver	1000 ug/mL
.MTTMHNO3_00036	07/31/16		Macron, Lot 0000076768		(Purchased Reagent)		Nitric acid	100 %
MTH2S04_00020	09/18/16		Macron, Lot 0000056441		(Purchased Reagent)		Sulfuric acid	100 %
MTHGCALW_00743	10/13/14	10/13/14	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00013	1 mL	Mercury	100 ug/L
					MTTMHNO3_00040	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00013	07/01/15		INORGANIC VENTURES, Lot G2-HG02115		(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00040	09/29/16		JT Baker, Lot 0000084115		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00744	10/14/14	10/14/14	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00013	1 mL	Mercury	100 ug/L
					MTTMHNO3_00041	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00013	07/01/15		INORGANIC VENTURES, Lot G2-HG02115		(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00041	10/07/16		Macron/Avantor, Lot 0000080824		(Purchased Reagent)		Nitric acid	100 %
MTHgStd_00011	07/31/15		Teledyne Leeman, Lot 1368801		(Purchased Reagent)		Mercury	1 ug/mL
MTICP1_00033	01/27/15	08/28/14	DIWATER, Lot DI WATER	1000 mL	MTICPSPIKE1A_00007	50 mL	Al	100000 ug/L
							As	100000 ug/L
							B	50000 ug/L
							Ba	100000 ug/L
							Be	2500 ug/L
							Cadmium	2500 ug/L
							Chromium	10000 ug/L
							Co	25000 ug/L
							Copper	12500 ug/L
							Fe	50000 ug/L
							Lead	25000 ug/L
							Mn	25000 ug/L
							Nickel	25000 ug/L
							Se	100000 ug/L
							Tl	100000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added	Analyte	Concentration
							V	25000 ug/L
							Zinc	25000 ug/L
					MTICPSPIKEB_00007	50 mL	Mo	50000 ug/L
							Sb	25000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00004	50 mL	Li	50000 ug/L
							Si	50000 ug/L
							SiO2	107000 ug/L
							Sr	50000 ug/L
					MTTMHNO3_00037	50 mL	Nitric acid	50000000 ug/L
.MTICPSPIKE1A_00007	01/27/15	High Purity Standards, Lot 1402729			(Purchased Reagent)		Al	2000 ug/mL
							As	2000 ug/mL
							B	1000 ug/mL
							Ba	2000 ug/mL
							Be	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Copper	250 ug/mL
							Fe	1000 ug/mL
							Lead	500 ug/mL
							Mn	500 ug/mL
							Nickel	500 ug/mL
							Se	2000 ug/mL
							Tl	2000 ug/mL
							V	500 ug/mL
							Zinc	500 ug/mL
.MTICPSPIKEB_00007	01/27/15	High Purity Standards, Lot 1402315			(Purchased Reagent)		Mo	1000 ug/mL
							Sb	500 ug/mL
							Sn	2000 ug/mL
							Ti	1000 ug/mL
.MTICPSpikeOdd_00004	01/27/15	High Purity Standards, Lot 1402316			(Purchased Reagent)		Li	1000 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sr	1000 ug/mL
.MTTMHNO3_00037	08/18/16	Macron, Lot LO8022			(Purchased Reagent)		Nitric acid	100 %
MTICP2A_00040	01/24/15	07/24/14	DIWATER, Lot DIWATER	1000 mL	MTTMHNO3_00034	50 mL	Nitric acid	50000 mg/L
					MTTRCAL2_00009	250 mL	Ca	2500 mg/L
							K	2500 mg/L
							Mg	2500 mg/L
							Na	2500 mg/L
.MTTMHNO3_00034	07/01/16	Macron, Lot 0000067457			(Purchased Reagent)		Nitric acid	100 %
.MTTRCAL2_00009	07/17/15	HIGH PURITY STANDARDS, Lot 1331807			(Purchased Reagent)		Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
MTICPCCV_00032	04/13/15	10/13/14	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00005	200 mL	Cadmium	500 ug/L
							Chromium	2000 ug/L
							Copper	2000 ug/L
							Lead	500 ug/L
							Nickel	2000 ug/L
							Zinc	2000 ug/L
					MTICPCCV2_00005	200 mL	Silver	1000 ug/L
.MTICPCCV1_00005	08/01/15	INORGANIC VENTURES, Lot H2-MEB523064			(Purchased Reagent)		Cadmium	5000 ug/L
							Chromium	20000 ug/L
							Copper	20000 ug/L
							Lead	5000 ug/L
							Nickel	20000 ug/L
							Zinc	20000 ug/L
.MTICPCCV2_00005	08/01/15	INORGANIC VENTURES, Lot H2-MEB523065			(Purchased Reagent)		Silver	10000 ug/L
MTICPICSABW_00005	01/01/15	07/17/14	DIWATER, Lot DIWATER	1000 mL	MTICPICSAB1_00002	100 mL	Al	500000 ug/L
							As	1000 ug/L
							B	500 ug/L
							Ba	500 ug/L
							Be	500 ug/L
							Ca	500000 ug/L
							Cadmium	1000 ug/L
							Chromium	500 ug/L
							Co	500 ug/L
							Copper	500 ug/L
							Fe	200000 ug/L
							K	10000 ug/L
							Lead	1000 ug/L
							Li	500 ug/L
							Mg	500000 ug/L
							Mn	500 ug/L
							Na	10000 ug/L
							Nickel	1000 ug/L
							Se	1000 ug/L
							Sr	1500 ug/L
							Tl	1000 ug/L
							V	500 ug/L
							Zinc	1000 ug/L
					MTICPICSAB2_00002	100 mL	Mo	1000 ug/L
							Sb	1000 ug/L
							Si	10000 ug/L
							Silver	1000 ug/L
							Sn	500 ug/L
							Ti	500 ug/L
.MTICPICSAB1_00002	01/01/15	INORGANIC VENTURES, Lot G2-MEB505142			(Purchased Reagent)		Al	5000000 ug/L
							As	10000 ug/L
							B	5000 ug/L
							Ba	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added	Be	5000 ug/L
							Ca	5000000 ug/L
							Cadmium	10000 ug/L
							Chromium	5000 ug/L
							Co	5000 ug/L
							Copper	5000 ug/L
							Fe	2000000 ug/L
							K	100000 ug/L
							Lead	10000 ug/L
							Li	5000 ug/L
							Mg	5000000 ug/L
							Mn	5000 ug/L
							Na	100000 ug/L
							Nickel	10000 ug/L
							Se	10000 ug/L
							Sr	15000 ug/L
							Tl	10000 ug/L
							V	5000 ug/L
							Zinc	10000 ug/L
.MTICPICSAB2_00002	01/01/15	INORGANIC VENTURES, Lot G2-MEB505143			(Purchased Reagent)		Mo	10000 ug/L
							Sb	10000 ug/L
							Si	100000 ug/L
							Silver	10000 ug/L
							Sn	5000 ug/L
							Ti	5000 ug/L
MTK2S208RGNT_00054	04/16/16	04/16/14	DIWATER, Lot DIWATER	1 L	MTK2S208_00011	100 g	Potassium persulfate	0.1 g/g
.MTK2S208_00011	10/10/17	Fisher, Lot 120909			(Purchased Reagent)		Potassium persulfate	1 g/g
MTKMN04W_00071	10/08/16	10/08/14	DIWATER, Lot DIWATER	2.5 L	MTKMN04_00018	125 g	Potassium Permanganate	0.05 g/g
.MTKMN04_00018	08/07/19	Fisher, Lot 121666			(Purchased Reagent)		Potassium Permanganate	1 g/g
MTTMHCL_00047	10/03/16	Macron/Avantor, Lot 0000086340			(Purchased Reagent)		Hydrogen Chloride	100 %
MTTMHNO3_00041	10/07/16	Macron/Avantor, Lot 0000080824			(Purchased Reagent)		Nitric acid	100 %
MTTRCRIC_00022	12/01/14	09/05/14	DIWATER, Lot DIWATER	500 mL	MTTRCRI6010C_00008	25 mL	Cadmium	5 ug/L
							Chromium	10 ug/L
							Copper	20 ug/L
							Lead	10 ug/L
							Nickel	40 ug/L
							Silver	10 ug/L
							Zinc	50 ug/L
.MTTRCRI6010C_00008	12/01/14	Inorganic Ventures, Lot G2-MEB500140			(Purchased Reagent)		Cadmium	100 ug/L
							Chromium	200 ug/L
							Copper	400 ug/L
							Lead	200 ug/L
							Nickel	800 ug/L
							Silver	200 ug/L
							Zinc	1000 ug/L
MTTRICSAW_00024	03/23/15	09/23/14	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00012	100 mL	Al	500000 ug/L

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ca	500000 ug/L
							Fe	200000 ug/L
							Mg	500000 ug/L
.MTTRICSA_00012	06/01/15	INORGANIC VENTURES, Lot G2-MEB491156			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL
VM50IS_00044	03/18/15	09/18/14	MEOH, Lot 62345	100 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18	restek, Lot A093261			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_stk_00060	10/10/14	04/10/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00017	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00061	01/05/15	07/07/14	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00017	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00068	10/07/14	09/30/14	MEOH, Lot na	3 mL	VMACROLSTD_00017	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00017	10/31/14	09/30/14	MEOH, Lot +182820000062345JF	20 mL	VM568720_00002	0.25 mL	Acrolein	250 ug/mL
..VM568720_00002	10/31/14	restek, Lot A0104246			(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASA9W_00029	10/03/14	09/26/14	MEOH, Lot NA	2 mL	VMFASA9_00003	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMFASA9_00003	02/05/15	08/05/14	MEOH, Lot +182820000062345JF	100 mL	vm568722S_00002	2.5 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723S_00001	2.5 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..vm568722S_00002	06/30/15	restek, Lot A0100258			(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723S_00001	04/30/16	restek, Lot A0102749			(Purchased Reagent)		Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMFASGW_00057	10/04/14	09/30/14	MEOH, Lot NA	2 mL	VMFASG_00019	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00019	10/04/14	09/04/14	MEOH, Lot 0000062345	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00060	10/20/14	10/13/14	MEOH, Lot NA	2 mL	VMFASG_00020	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00020	11/02/14	10/05/14	MEOH, Lot 0000062345	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00054	10/07/14	09/30/14	MEOH, Lot NA	2 mL	VMRFASP_00011	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	40 ug/mL
.VMRFASP_00011	10/31/14	09/30/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00005	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00011	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00007	1 mL	Vinyl acetate	40 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL

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Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00011	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00007	10/31/14		Restek, Lot A0102474		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMFASPW_00056	10/22/14	10/15/14	MEOH, Lot NA	2 mL	VMRFASP_00011	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL

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Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	40 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMRFASP_00011	10/31/14	09/30/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00005	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00011	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00007	1 mL	Vinyl acetate	40 ug/mL
..VM567641S_00005	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00011	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00007	10/31/14		Restek, Lot A0102474		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRA9W_00075	10/07/14	09/30/14	MEOH, Lot NA	1 mL	VMRA9_00010	1 mL	Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00010	10/29/14	07/29/14	MEOH, Lot 134079	50 mL	VM567648_00014	1.25 mL	Cyclohexanone	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					vm567719_00020	2.5 mL	2-Methylnaphthalene	100 ug/mL
					vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
					VM568723_00001	1.25 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..VM567648_00014	02/29/16		Restek, Lot A093361		(Purchased Reagent)		Cyclohexanone	20000 ug/mL
..vm567719_00020	02/28/15		Restek, Lot A093359		(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
..vm568722_00002	06/30/15		restek, Lot A0100262		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							1-Chlorohexane	2000 ug/mL
							2-Chloro-1,3-butadiene	2000 ug/mL
							2-Nitropropane	4000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL
..VM568723_00001	12/31/15		restek, Lot A099930		(Purchased Reagent)		Acetonitrile	20000 ug/mL
							Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRA9W_00077	10/17/14	10/10/14	MEOH, Lot NA	1 mL	VMRA9_00010	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00010	10/29/14	07/29/14	MEOH, Lot 134079	50 mL	vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723_00001	1.25 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..vm568722_00002	06/30/15		restek, Lot A0100262		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723_00001	12/31/15		restek, Lot A099930		(Purchased Reagent)		Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRGAS_00071	10/03/14	09/26/14	MEOH, Lot 0000062345	10 mL	vm567645_00030	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00030	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRGAS_00073	10/19/14	10/12/14	MEOH, Lot 0000062345	10 mL	vm567645_00031	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00031	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRPRIMW_00084	10/03/14	09/26/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00087	10/17/14	10/10/14	MEOH, Lot NA	1 mL	VMRPRIM_00008	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00008	10/31/14	05/31/14	MEOH, Lot 134079	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642_00012	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00017	1 mL	2-Chloroethyl vinyl ether	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VM567643_00018	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00019	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00014	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642_00012	12/31/15		Restek, Lot A092220		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00017	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00018	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00019	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00014	10/31/14		Restek, Lot A0102473		(Purchased Reagent)		Vinyl acetate	4000 ug/mL

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-42919-1
Project/Site: MRC Block E MPE System O&M

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

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 #
WSP-4-100914	240-42919-1	100	98	89	92
WSP-3-100914	240-42919-2	99	98	89	96
WSP-2-100914	240-42919-3	99	98	88	93
WSP-1-100914	240-42919-4	102	100	91	90
TB-100914	240-42919-5	102	99	88	92
	MB 240-151736/37	98	95	87	91
	LCS 240-151736/4	95	95	84	92
WSP-1-100914 MS	240-42919-4 MS	94	96	82	92
WSP-1-100914 MSD	240-42919-4 MSD	96	103	85	93

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ1704.D

Lab ID: LCS 240-151736/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	10.3	103	72-120	
1,1,1-Trichloroethane	10.0	10.9	109	74-120	
1,1,2,2-Tetrachloroethane	10.0	11.5	115	68-120	
1,1,2-Trichlorotrifluoroethane	10.0	9.99	100	74-151	
1,1-Dichloroethane	10.0	11.0	110	80-120	
1,1-Dichloroethene	10.0	10.4	104	78-131	
1,1-Dichloropropene	10.0	11.8	118	80-120	
1,2,3-Trichlorobenzene	10.0	9.45	95	54-126	
1,2,3-Trichloropropane	10.0	12.5	125	73-129	
1,2,4-Trichlorobenzene	10.0	8.94	89	48-135	
1,2,4-Trimethylbenzene	10.0	10.2	102	76-120	
1,2-Dibromo-3-Chloropropane	10.0	10.5	105	42-136	
1,2-Dichlorobenzene	10.0	9.74	97	80-120	
1,2-Dichloroethane	10.0	11.6	116	71-127	
1,2-Dichloropropane	10.0	11.1	111	80-120	
1,3-Dichlorobenzene	10.0	9.81	98	80-120	
1,3-Dichloropropane	10.0	9.91	99	79-120	
1,4-Dichlorobenzene	10.0	9.83	98	80-120	
2,2-Dichloropropane	10.0	10.6	106	50-129	
2-Butanone (MEK)	20.0	21.5	108	60-126	
2-Chloroethyl vinyl ether	12.0	16.8	140	52-131	*
2-Chlorotoluene	10.0	11.4	114	76-120	
2-Hexanone	20.0	17.4	87	55-133	
4-Chlorotoluene	10.0	11.0	110	77-120	
4-Isopropyltoluene	10.0	10.1	101	74-120	
4-Methyl-2-pentanone (MIBK)	20.0	24.1	121	63-128	
Acetone	20.0	18.6	93	43-136	
Benzene	10.0	10.7	107	80-120	
Bromobenzene	10.0	11.5	115	76-120	
Bromoform	10.0	10.7	107	40-131	
Bromomethane	10.0	9.05	90	11-185	
Carbon disulfide	10.0	11.1	111	62-142	
Carbon tetrachloride	10.0	11.5	115	66-128	
Chlorobenzene	10.0	10.3	103	80-120	
Chlorodibromomethane	10.0	10.4	104	64-120	
Chloroethane	10.0	8.44	84	25-153	
Chloroform	10.0	10.7	107	79-120	
Chloromethane	10.0	9.31	93	44-126	
cis-1,2-Dichloroethene	10.0	10.7	107	80-120	
cis-1,3-Dichloropropene	10.0	11.8	118	61-120	
Dibromomethane	10.0	11.5	115	80-120	
Bromochloromethane	10.0	10.8	108	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ1704.D

Lab ID: LCS 240-151736/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	7.46	75	19-129	
Bromodichloromethane	10.0	11.4	114	72-121	
tert-Butyl alcohol	100	124	124	70-130	
Ethylbenzene	10.0	10.3	103	80-120	
Hexachlorobutadiene	10.0	8.79	88	36-134	
Isopropylbenzene	10.0	9.90	99	75-120	
Methyl tert-butyl ether	10.0	11.5	115	52-144	
Methylene Chloride	10.0	11.0	110	66-131	
m-Xylene & p-Xylene	10.0	10.4	104	80-120	
Naphthalene	10.0	9.74	97	32-141	
n-Butylbenzene	10.0	9.58	96	66-125	
N-Propylbenzene	10.0	11.3	113	74-121	
o-Xylene	10.0	10.4	104	80-120	
sec-Butylbenzene	10.0	10.1	101	70-120	
Styrene	10.0	10.3	103	79-120	
Tetrachloroethene	10.0	9.39	94	79-120	
Toluene	10.0	9.54	95	80-120	
trans-1,2-Dichloroethene	10.0	10.8	108	80-120	
trans-1,3-Dichloropropene	10.0	10.5	105	58-120	
Trichloroethene	10.0	11.0	110	76-120	
Trichlorofluoromethane	10.0	10.3	103	49-157	
Vinyl acetate	8.00	7.88	98	46-161	
Vinyl chloride	10.0	9.00	90	53-127	
Xylenes, Total	20.0	20.8	104	80-120	
tert-Butylbenzene	10.0	10.0	100	71-120	
1,2-Dibromoethane	10.0	9.91	99	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ1731.D

Lab ID: 240-42919-4 MS Client ID: WSP-1-100914 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20000	560 U	20300	101	64-120	
1,1,1-Trichloroethane	20000	440 U	21400	107	68-121	
1,1,2,2-Tetrachloroethane	20000	440 U	21600	108	63-122	
1,1,2-Trichlorotrifluoroethane	20000	740 U	17100	85	70-152	
1,1-Dichloroethane	20000	520 U	22000	110	79-120	
1,1-Dichloroethene	20000	900 U	19000	95	74-135	
1,1-Dichloropropene	20000	440 U	23000	115	80-120	
1,2,3-Trichlorobenzene	20000	740 U	17100	86	45-129	
1,2,3-Trichloropropane	20000	600 U	23800	119	67-132	
1,2,4-Trichlorobenzene	20000	640 U	15800	79	38-138	
1,2,4-Trimethylbenzene	20000	820 U	18700	93	67-124	
1,2-Dibromo-3-Chloropropane	20000	1600 U	19500	97	32-139	
1,2-Dichlorobenzene	20000	340 U	18500	93	75-120	
1,2-Dichloroethane	20000	400 U	24200	121	68-129	
1,2-Dichloropropane	20000	440 U	23200	116	78-120	
1,3-Dichlorobenzene	20000	340 U	18200	91	73-120	
1,3-Dichloropropane	20000	360 U	20500	102	74-120	
1,4-Dichlorobenzene	20000	320 U	18200	91	75-120	
2,2-Dichloropropane	20000	520 U	18900	94	38-127	
2-Butanone (MEK)	40000	8200 U	43500	109	54-129	
2-Chloroethyl vinyl ether	24000	2300 U	30000	125	10-150	
2-Chlorotoluene	20000	400 U	21100	106	69-120	
2-Hexanone	40000	7800 U	35400	88	47-139	
4-Chlorotoluene	20000	440 U	20200	101	71-120	
4-Isopropyltoluene	20000	860 U	17800	89	64-122	
4-Methyl-2-pentanone (MIBK)	40000	7200 U	46800	117	56-131	
Acetone	40000	6800 U	38200	96	33-145	
Benzene	20000	480 U	21500	108	72-121	
Bromobenzene	20000	240 U	21400	107	71-120	
Bromoform	20000	1100 U	20400	102	32-128	
Bromomethane	20000	1300 U	14400	72	10-186	
Carbon disulfide	20000	560 U	21000	105	57-147	
Carbon tetrachloride	20000	340 U	21100	105	59-129	
Chlorobenzene	20000	380 U	20300	102	80-120	
Chlorodibromomethane	20000	860 U	19900	99	56-120	
Chloroethane	20000	660 U	14500	72	21-165	
Chloroform	20000	420 U	22100	111	76-120	
Chloromethane	20000	880 U	18000	90	33-132	
cis-1,2-Dichloroethene	20000	400 U	21500	107	70-120	
cis-1,3-Dichloropropene	20000	920 U	22000	110	51-120	
Dibromomethane	20000	340 U	23600	118	77-121	
Bromochloromethane	20000	500 U	21700	109	73-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ1731.D

Lab ID: 240-42919-4 MS Client ID: WSP-1-100914 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	20000	1000 U	12700	64	17-128	
Bromodichloromethane	20000	300 U	22500	112	67-120	
tert-Butyl alcohol	200000	17000 U	229000	115	70-130	
Ethylbenzene	20000	460 U	19800	99	75-120	
Hexachlorobutadiene	20000	700 U	13900	70	27-132	
Isopropylbenzene	20000	700 U	19400	97	68-120	
Methyl tert-butyl ether	20000	320 U	22800	114	46-144	
Methylene Chloride	20000	560 U	21800	109	63-128	
m-Xylene & p-Xylene	20000	440 U	20500	102	75-120	
Naphthalene	20000	900 U	16800	84	15-158	
n-Butylbenzene	20000	440 U	16800	84	56-127	
N-Propylbenzene	20000	800 U	20000	100	64-124	
o-Xylene	20000	420 U	20900	105	76-120	
sec-Butylbenzene	20000	960 U	18600	93	60-120	
Styrene	20000	900 U	21000	105	71-120	
Tetrachloroethene	20000	400 U	18300	92	70-120	
Toluene	20000	440 U	19200	96	78-120	
trans-1,2-Dichloroethene	20000	520 U	21300	106	80-120	
trans-1,3-Dichloropropene	20000	1100 U	20400	102	46-120	
Trichloroethene	20000	48000	65000	85	66-120	
Trichlorofluoromethane	20000	980 U	17500	88	46-157	
Vinyl acetate	16000	820 U	14500	91	43-157	
Vinyl chloride	20000	580 U	17100	86	49-130	
Xylenes, Total	40000	860 U	41400	104	76-120	
tert-Butylbenzene	20000	820 U	17900	89	61-120	
1,2-Dibromoethane	20000	380 U	19600	98	74-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ1732.D

Lab ID: 240-42919-4 MSD Client ID: WSP-1-100914 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	20000	20200	101	0	30	64-120	
1,1,1-Trichloroethane	20000	21200	106	1	30	68-121	
1,1,2,2-Tetrachloroethane	20000	23900	119	10	30	63-122	
1,1,2-Trichlorotrifluoroethane	20000	17300	87	1	30	70-152	
1,1-Dichloroethane	20000	22000	110	0	30	79-120	
1,1-Dichloroethene	20000	20300	102	7	30	74-135	
1,1-Dichloropropene	20000	22900	115	0	30	80-120	
1,2,3-Trichlorobenzene	20000	18300	91	6	30	45-129	
1,2,3-Trichloropropane	20000	23900	120	1	30	67-132	
1,2,4-Trichlorobenzene	20000	16800	84	6	30	38-138	
1,2,4-Trimethylbenzene	20000	19800	99	6	30	67-124	
1,2-Dibromo-3-Chloropropane	20000	20200	101	4	30	32-139	
1,2-Dichlorobenzene	20000	19400	97	5	30	75-120	
1,2-Dichloroethane	20000	23900	119	2	30	68-129	
1,2-Dichloropropane	20000	22900	115	1	30	78-120	
1,3-Dichlorobenzene	20000	19100	95	5	30	73-120	
1,3-Dichloropropane	20000	20300	102	1	30	74-120	
1,4-Dichlorobenzene	20000	19700	99	8	30	75-120	
2,2-Dichloropropane	20000	18900	95	0	30	38-127	
2-Butanone (MEK)	40000	44200	111	2	30	54-129	
2-Chloroethyl vinyl ether	24000	32700	136	9	30	10-150	
2-Chlorotoluene	20000	22600	113	7	30	69-120	
2-Hexanone	40000	33900	85	4	30	47-139	
4-Chlorotoluene	20000	21200	106	5	30	71-120	
4-Isopropyltoluene	20000	18500	92	4	30	64-122	
4-Methyl-2-pentanone (MIBK)	40000	48000	120	3	30	56-131	
Acetone	40000	37700	94	1	30	33-145	
Benzene	20000	21400	107	1	30	72-121	
Bromobenzene	20000	22000	110	3	30	71-120	
Bromoform	20000	20000	100	2	30	32-128	
Bromomethane	20000	15300	77	6	30	10-186	
Carbon disulfide	20000	20900	105	1	30	57-147	
Carbon tetrachloride	20000	21300	107	1	30	59-129	
Chlorobenzene	20000	20600	103	1	30	80-120	
Chlorodibromomethane	20000	20100	100	1	30	56-120	
Chloroethane	20000	14900	75	3	30	21-165	
Chloroform	20000	21600	108	2	30	76-120	
Chloromethane	20000	17800	89	1	30	33-132	
cis-1,2-Dichloroethene	20000	21200	106	1	30	70-120	
cis-1,3-Dichloropropene	20000	22500	113	2	30	51-120	
Dibromomethane	20000	22900	114	3	30	77-121	
Bromochloromethane	20000	21400	107	1	30	73-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ1732.D

Lab ID: 240-42919-4 MSD Client ID: WSP-1-100914 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Dichlorodifluoromethane	20000	12300	61	4	30	17-128	
Bromodichloromethane	20000	22100	110	2	30	67-120	
tert-Butyl alcohol	200000	248000	124	8	30	70-130	
Ethylbenzene	20000	20200	101	2	30	75-120	
Hexachlorobutadiene	20000	15300	77	10	30	27-132	
Isopropylbenzene	20000	19800	99	2	30	68-120	
Methyl tert-butyl ether	20000	23500	118	3	30	46-144	
Methylene Chloride	20000	22100	111	1	30	63-128	
m-Xylene & p-Xylene	20000	20700	104	1	30	75-120	
Naphthalene	20000	18100	91	8	30	15-158	
n-Butylbenzene	20000	17700	89	5	30	56-127	
N-Propylbenzene	20000	22000	110	9	30	64-124	
o-Xylene	20000	20600	103	2	30	76-120	
sec-Butylbenzene	20000	19300	97	4	30	60-120	
Styrene	20000	20900	104	1	30	71-120	
Tetrachloroethene	20000	18500	92	1	30	70-120	
Toluene	20000	19100	96	0	30	78-120	
trans-1,2-Dichloroethene	20000	21200	106	0	30	80-120	
trans-1,3-Dichloropropene	20000	20300	101	0	30	46-120	
Trichloroethene	20000	68000	100	5	30	66-120	
Trichlorofluoromethane	20000	17400	87	1	30	46-157	
Vinyl acetate	16000	14500	90	0	30	43-157	
Vinyl chloride	20000	17400	87	2	30	49-130	
Xylenes, Total	40000	41300	103	0	30	76-120	
tert-Butylbenzene	20000	19100	95	6	30	61-120	
1,2-Dibromoethane	20000	20200	101	3	30	74-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab File ID: UXJ1709.D Lab Sample ID: MB 240-151736/37

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX11 Date Analyzed: 10/15/2014 13:17

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 240-151736/4	UXJ1704.D	10/15/2014 11:24
WSP-4-100914	240-42919-1	UXJ1712.D	10/15/2014 14:26
WSP-3-100914	240-42919-2	UXJ1713.D	10/15/2014 14:48
WSP-2-100914	240-42919-3	UXJ1714.D	10/15/2014 15:11
TB-100914	240-42919-5	UXJ1715.D	10/15/2014 15:34
WSP-1-100914	240-42919-4	UXJ1730.D	10/15/2014 21:12
WSP-1-100914 MS	240-42919-4 MS	UXJ1731.D	10/15/2014 21:35
WSP-1-100914 MSD	240-42919-4 MSD	UXJ1732.D	10/15/2014 21:58

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab File ID: BFB102.D BFB Injection Date: 10/02/2014

Instrument ID: A3UX11 BFB Injection Time: 07:58

Analysis Batch No.: 149716

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.8	
75	30.0 - 60.0 % of mass 95	46.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	94.6	
175	5.0 - 9.0 % of mass 174	6.8	(7.2)1
176	95.0 - 101.0 % of mass 174	92.1	(97.3)1
177	5.0 - 9.0 % of mass 176	5.8	(6.3)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 240-149716/2	UXJ1267.D	10/02/2014	08:37
	STD8260 240-149716/3	UXJ1268.D	10/02/2014	09:00
	STD8260 240-149716/4	UXJ1269.D	10/02/2014	09:22
	STD8260 240-149716/5	UXJ1270.D	10/02/2014	09:45
	STD8260 240-149716/6	UXJ1271.D	10/02/2014	10:07
	STD8260 240-149716/7	UXJ1272.D	10/02/2014	10:30
	STD6 240-149716/8	UXJ1273.D	10/02/2014	10:53
	STD5 240-149716/9	UXJ1274.D	10/02/2014	11:15
	STD4 240-149716/10	UXJ1275.D	10/02/2014	11:38
	STD3 240-149716/11	UXJ1276.D	10/02/2014	11:59
	STD2 240-149716/12	UXJ1277.D	10/02/2014	12:22
	STD1 240-149716/13	UXJ1278.D	10/02/2014	12:45
	ICV 240-149716/14	UXJ1279.D	10/02/2014	13:07
	ICV 240-149716/15	UXJ1280.D	10/02/2014	13:30

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab File ID: BFB1015A.D BFB Injection Date: 10/15/2014

Instrument ID: A3UX11 BFB Injection Time: 10:34

Analysis Batch No.: 151736

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.6	
75	30.0 - 60.0 % of mass 95	48.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	87.8	
175	5.0 - 9.0 % of mass 174	6.5	(7.4)1
176	95.0 - 101.0 % of mass 174	86.3	(98.3)1
177	5.0 - 9.0 % of mass 176	5.3	(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
	CCVIS 240-151736/2	UXJ1703.D	10/15/2014	11:01
	LCS 240-151736/4	UXJ1704.D	10/15/2014	11:24
	CCV 240-151736/3	UXJ1705.D	10/15/2014	11:47
	MB 240-151736/37	UXJ1709.D	10/15/2014	13:17
WSP-4-100914	240-42919-1	UXJ1712.D	10/15/2014	14:26
WSP-3-100914	240-42919-2	UXJ1713.D	10/15/2014	14:48
WSP-2-100914	240-42919-3	UXJ1714.D	10/15/2014	15:11
TB-100914	240-42919-5	UXJ1715.D	10/15/2014	15:34
WSP-1-100914	240-42919-4	UXJ1730.D	10/15/2014	21:12
WSP-1-100914 MS	240-42919-4 MS	UXJ1731.D	10/15/2014	21:35
WSP-1-100914 MSD	240-42919-4 MSD	UXJ1732.D	10/15/2014	21:58

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Sample No.: STD8260 240-149716/4 Date Analyzed: 10/02/2014 09:22

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ1269.D Heated Purge: (Y/N) N

Calibration ID: 24490

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1465561	5.37	797254	8.05	342658	10.29
UPPER LIMIT		2931122	5.87	1594508	8.55	685316	10.79
LOWER LIMIT		732781	4.87	398627	7.55	171329	9.79
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-149716/14		1347046	5.37	740035	8.05	327548	10.29
ICV 240-149716/15		1316221	5.37	676140	8.05	297865	10.29
CCVIS 240-151736/2		1515832	5.37	950888	8.05	351424	10.29

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 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Sample No.: CCVIS 240-151736/2 Date Analyzed: 10/15/2014 11:01

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ1703.D Heated Purge: (Y/N) N

Calibration ID: 24492

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1515832	5.37	950888	8.05	351424	10.29
UPPER LIMIT		3031664	5.87	1901776	8.55	702848	10.79
LOWER LIMIT		757916	4.87	475444	7.55	175712	9.79
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-151736/4		1391940	5.37	880081	8.05	326082	10.29
CCV 240-151736/3		1325323	5.37	788395	8.05	283453	10.29
MB 240-151736/37		1142197	5.37	610719	8.06	264740	10.29
240-42919-1	WSP-4-100914	1144287	5.37	618837	8.06	268555	10.29
240-42919-2	WSP-3-100914	1135999	5.37	612749	8.06	270048	10.29
240-42919-3	WSP-2-100914	1149913	5.37	616686	8.06	261835	10.29
240-42919-5	TB-100914	1137979	5.37	616261	8.06	270258	10.29
240-42919-4	WSP-1-100914	1130805	5.37	618609	8.06	262045	10.29
240-42919-4 MS	WSP-1-100914 MS	1309422	5.37	829531	8.05	328376	10.29
240-42919-4 MSD	WSP-1-100914 MSD	1300306	5.37	824711	8.05	306757	10.29

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-4-100914 | Lab Sample ID: 240-42919-1

Matrix: Water | Lab File ID: UXJ1712.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 14:26

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.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U *	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-4-100914 | Lab Sample ID: 240-42919-1

Matrix: Water | Lab File ID: UXJ1712.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 14:26

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.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-4-100914 Lab Sample ID: 240-42919-1

Matrix: Water Lab File ID: UXJ1712.D

Analysis Method: 8260C Date Collected: 10/09/2014 10:40

Sample wt/vol: 5(mL) Date Analyzed: 10/15/2014 14:26

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.: 151736 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		74-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
460-00-4	4-Bromofluorobenzene (Surr)	92		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-3-100914 | Lab Sample ID: 240-42919-2

Matrix: Water | Lab File ID: UXJ1713.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 14:48

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.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U *	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-3-100914 | Lab Sample ID: 240-42919-2

Matrix: Water | Lab File ID: UXJ1713.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:45

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 14:48

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.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-3-100914 Lab Sample ID: 240-42919-2

Matrix: Water Lab File ID: UXJ1713.D

Analysis Method: 8260C Date Collected: 10/09/2014 10:45

Sample wt/vol: 5(mL) Date Analyzed: 10/15/2014 14:48

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.: 151736 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	89		74-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-121
460-00-4	4-Bromofluorobenzene (Surr)	96		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-2-100914 | Lab Sample ID: 240-42919-3

Matrix: Water | Lab File ID: UXJ1714.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 15:11

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.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U *	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-2-100914 | Lab Sample ID: 240-42919-3

Matrix: Water | Lab File ID: UXJ1714.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:50

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 15:11

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.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-2-100914 Lab Sample ID: 240-42919-3

Matrix: Water Lab File ID: UXJ1714.D

Analysis Method: 8260C Date Collected: 10/09/2014 10:50

Sample wt/vol: 5(mL) Date Analyzed: 10/15/2014 15:11

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.: 151736 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	88		74-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-121
460-00-4	4-Bromofluorobenzene (Surr)	93		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-1-100914 | Lab Sample ID: 240-42919-4

Matrix: Water | Lab File ID: UXJ1730.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 21:12

Soil Aliquot Vol: | Dilution Factor: 2000

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

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

Analysis Batch No.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	560	U	2000	560
71-55-6	1,1,1-Trichloroethane	440	U	2000	440
79-34-5	1,1,2,2-Tetrachloroethane	440	U	2000	440
76-13-1	1,1,2-Trichlorotrifluoroethane	740	U	2000	740
75-34-3	1,1-Dichloroethane	520	U	2000	520
75-35-4	1,1-Dichloroethene	900	U	2000	900
563-58-6	1,1-Dichloropropene	440	U	2000	440
87-61-6	1,2,3-Trichlorobenzene	740	U	2000	740
96-18-4	1,2,3-Trichloropropane	600	U	2000	600
526-73-8	1,2,3-Trimethylbenzene	940	U	10000	940
120-82-1	1,2,4-Trichlorobenzene	640	U	2000	640
95-63-6	1,2,4-Trimethylbenzene	820	U	2000	820
96-12-8	1,2-Dibromo-3-Chloropropane	1600	U	4000	1600
95-50-1	1,2-Dichlorobenzene	340	U	2000	340
107-06-2	1,2-Dichloroethane	400	U	2000	400
78-87-5	1,2-Dichloropropane	440	U	2000	440
541-73-1	1,3-Dichlorobenzene	340	U	2000	340
142-28-9	1,3-Dichloropropane	360	U	2000	360
106-46-7	1,4-Dichlorobenzene	320	U	2000	320
594-20-7	2,2-Dichloropropane	520	U	2000	520
78-93-3	2-Butanone (MEK)	8200	U	20000	8200
110-75-8	2-Chloroethyl vinyl ether	2300	U *	20000	2300
95-49-8	2-Chlorotoluene	400	U	2000	400
591-78-6	2-Hexanone	7800	U	20000	7800
106-43-4	4-Chlorotoluene	440	U	2000	440
99-87-6	4-Isopropyltoluene	860	U	2000	860
108-10-1	4-Methyl-2-pentanone (MIBK)	7200	U	20000	7200
67-64-1	Acetone	6800	U	20000	6800
71-43-2	Benzene	480	U	2000	480
108-86-1	Bromobenzene	240	U	2000	240
75-25-2	Bromoform	1100	U	2000	1100
74-83-9	Bromomethane	1300	U	2000	1300
75-15-0	Carbon disulfide	560	U	2000	560
56-23-5	Carbon tetrachloride	340	U	2000	340
108-90-7	Chlorobenzene	380	U	2000	380
124-48-1	Chlorodibromomethane	860	U	2000	860

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-1-100914 | Lab Sample ID: 240-42919-4

Matrix: Water | Lab File ID: UXJ1730.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 21:12

Soil Aliquot Vol: | Dilution Factor: 2000

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

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

Analysis Batch No.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	660	U	2000	660
67-66-3	Chloroform	420	U	2000	420
74-87-3	Chloromethane	880	U	2000	880
156-59-2	cis-1,2-Dichloroethene	400	U	2000	400
10061-01-5	cis-1,3-Dichloropropene	920	U	2000	920
74-95-3	Dibromomethane	340	U	2000	340
74-97-5	Bromochloromethane	500	U	2000	500
75-71-8	Dichlorodifluoromethane	1000	U	2000	1000
75-27-4	Bromodichloromethane	300	U	2000	300
75-65-0	tert-Butyl alcohol	17000	U	100000	17000
100-41-4	Ethylbenzene	460	U	2000	460
87-68-3	Hexachlorobutadiene	700	U	2000	700
108-20-3	Diisopropyl ether	380	U	20000	380
98-82-8	Isopropylbenzene	700	U	2000	700
1634-04-4	Methyl tert-butyl ether	320	U	2000	320
75-09-2	Methylene Chloride	560	U	2000	560
179601-23-1	m-Xylene & p-Xylene	440	U	4000	440
91-20-3	Naphthalene	900	U	2000	900
104-51-8	n-Butylbenzene	440	U	2000	440
103-65-1	N-Propylbenzene	800	U	2000	800
95-47-6	o-Xylene	420	U	2000	420
135-98-8	sec-Butylbenzene	960	U	2000	960
100-42-5	Styrene	900	U	2000	900
994-05-8	Tert-amyl methyl ether	320	U	10000	320
637-92-3	Ethyl tert-butyl ether	400	U	10000	400
127-18-4	Tetrachloroethene	400	U	2000	400
108-88-3	Toluene	440	U	2000	440
156-60-5	trans-1,2-Dichloroethene	520	U	2000	520
10061-02-6	trans-1,3-Dichloropropene	1100	U	2000	1100
79-01-6	Trichloroethene	48000		2000	300
75-69-4	Trichlorofluoromethane	980	U	2000	980
108-05-4	Vinyl acetate	820	U	4000	820
75-01-4	Vinyl chloride	580	U	2000	580
1330-20-7	Xylenes, Total	860	U	4000	860
98-06-6	tert-Butylbenzene	820	U	2000	820
106-93-4	1,2-Dibromoethane	380	U	2000	380

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-1-100914 Lab Sample ID: 240-42919-4

Matrix: Water Lab File ID: UXJ1730.D

Analysis Method: 8260C Date Collected: 10/09/2014 10:55

Sample wt/vol: 5(mL) Date Analyzed: 10/15/2014 21:12

Soil Aliquot Vol: Dilution Factor: 2000

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151736 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	91		74-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-121
460-00-4	4-Bromofluorobenzene (Surr)	90		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: TB-100914 | Lab Sample ID: 240-42919-5

Matrix: Water | Lab File ID: UXJ1715.D

Analysis Method: 8260C | Date Collected: 10/09/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 15:34

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.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U *	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: TB-100914 | Lab Sample ID: 240-42919-5

Matrix: Water | Lab File ID: UXJ1715.D

Analysis Method: 8260C | Date Collected: 10/09/2014 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 15:34

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.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Client Sample ID: TB-100914 Lab Sample ID: 240-42919-5

Matrix: Water Lab File ID: UXJ1715.D

Analysis Method: 8260C Date Collected: 10/09/2014 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/15/2014 15:34

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.: 151736 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	88		74-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-121
460-00-4	4-Bromofluorobenzene (Surr)	92		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		63-129

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:37 Calibration End Date: 10/02/2014 10:30 Calibration ID: 24490

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-149716/7	UXJ1272.D
Level 2	STD8260 240-149716/6	UXJ1271.D
Level 3	STD8260 240-149716/5	UXJ1270.D
Level 4	STD8260 240-149716/4	UXJ1269.D
Level 5	STD8260 240-149716/3	UXJ1268.D
Level 6	STD8260 240-149716/2	UXJ1267.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	0.2344 0.2110	0.2036	0.2031	0.2004	0.2061	Ave		0.2098			0.1000	6.0		15.0			
Chloromethane	0.2339 0.1868	0.2170	0.2066	0.1968	0.1939	Ave		0.2058			0.1000	8.4		15.0			
Vinyl chloride	0.2517 0.2088	0.2315	0.2260	0.2166	0.2122	Ave		0.2245			0.1000	7.0		15.0			
Bromomethane	0.0918 0.1020	0.1053	0.0987	0.0978	0.1031	Ave		0.0998			0.0500	4.8		15.0			
Chloroethane	0.1172 0.1124	0.1134	0.1176	0.1104	0.1134	Ave		0.1141				2.4		15.0			
Dichlorofluoromethane	0.2459 0.2338	0.2395	0.2278	0.2215	0.2317	Ave		0.2334				3.7		15.0			
Trichlorofluoromethane	0.2904 0.2564	0.3046	0.2918	0.2716	0.2810	Ave		0.2826			0.1000	6.0		15.0			
Ethyl ether	0.2450 0.2155	0.2377	0.2419	0.2380	0.2263	Ave		0.2341				4.7		15.0			
Acrolein	0.0190 0.0182	0.0172	0.0171	0.0180	0.0172	Ave		0.0178				4.4		15.0			
1,1-Dichloroethene	0.2645 0.2374	0.2656	0.2557	0.2440	0.2442	Ave		0.2519			0.1000	4.7		15.0			
1,1,2-Trichlorotrifluoroethane	0.1551 0.1479	0.1599	0.1559	0.1480	0.1508	Ave		0.1529			0.0500	3.2		15.0			
Acetone	0.0987 +++++	0.0693	0.0648	0.0617	0.0604	Lin1	0.0688	0.0583			0.0500				0.9990		0.9900
Iodomethane	0.3630 0.3212	0.3592	0.3433	0.3396	0.3321	Ave		0.3431				4.6		15.0			
Carbon disulfide	0.7616 0.6193	0.7023	0.6657	0.6515	0.6471	Ave		0.6746			0.1000	7.5		15.0			
3-Chloro-1-propene	0.2095 0.2052	0.1961	0.2051	0.2045	0.2070	Ave		0.2046				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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:37 Calibration End Date: 10/02/2014 10:30 Calibration ID: 24490

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								
Methyl acetate	0.1314 0.1241	0.1343	0.1344	0.1367	0.1362	Ave		0.1329			0.1000	3.5		15.0			
Methylene Chloride	0.5548 0.2675	0.4100	0.3242	0.2950	0.2791	Lin1	0.2977	0.2620			0.1000				1.0000		0.9900
tert-Butyl alcohol	0.0079 0.0081	0.0082	0.0079	0.0083	0.0088	Ave		0.0082				4.2		15.0			
Acrylonitrile	0.0670 0.0650	0.0679	0.0687	0.0707	0.0707	Ave		0.0683				3.3		15.0			
Methyl tert-butyl ether	0.6296 0.6654	0.6652	0.6798	0.6943	0.6924	Ave		0.6711			0.1000	3.6		15.0			
trans-1,2-Dichloroethene	0.3378 0.3148	0.3344	0.3181	0.3186	0.3165	Ave		0.3234			0.1000	3.1		15.0			
Hexane	0.0926 0.0950	0.0954	0.0934	0.0930	0.0915	Ave		0.0935				1.6		15.0			
1,1-Dichloroethane	0.5665 0.5056	0.5489	0.5454	0.5291	0.5199	Ave		0.5359			0.1000	4.1		15.0			
Vinyl acetate	0.2804 0.3288	0.3009	0.3205	0.3372	0.3419	Ave		0.3183				7.4		15.0			
2-Butanone (MEK)	0.0707 0.0893	0.0630	0.0640	0.0717	0.0728	Ave		0.0719			0.0500	13.0		15.0			
2,2-Dichloropropane	0.3020 0.2537	0.3181	0.3126	0.3122	0.3075	Ave		0.3010				7.9		15.0			
cis-1,2-Dichloroethene	0.3406 0.3195	0.3393	0.3245	0.3278	0.3236	Ave		0.3292			0.1000	2.7		15.0			
Bromochloromethane	0.1616 0.1488	0.1607	0.1543	0.1508	0.1519	Ave		0.1547				3.4		15.0			
Tetrahydrofuran	0.0378 0.0401	0.0365	0.0403	0.0443	0.0443	Ave		0.0406				8.0		15.0			
Chloroform	0.5371 0.4870	0.5307	0.5092	0.4997	0.4905	Ave		0.5090				4.1		15.0			
1,1,1-Trichloroethane	0.4274 0.3634	0.4192	0.4119	0.4079	0.4041	Ave		0.4056			0.1000	5.5		15.0			
Cyclohexane	0.4868 0.4148	0.4513	0.4480	0.4461	0.4480	Ave		0.4492			0.1000	5.1		15.0			
1,1-Dichloropropene	0.4252 0.3870	0.3940	0.4031	0.3999	0.3918	Ave		0.4002				3.4		15.0			
Carbon tetrachloride	0.3817 0.3623	0.3699	0.3762	0.3683	0.3738	Ave		0.3720			0.1000	1.8		15.0			
Isobutyl alcohol	0.0061 +++++	0.0063	0.0055	0.0048	0.0047	Ave		0.0055				14.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:37 Calibration End Date: 10/02/2014 10:30 Calibration ID: 24490

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-Dichloroethane	0.3734 0.3288	0.3601	0.3536	0.3517	0.3441	Ave		0.3520			0.1000	4.3		15.0			
Benzene	1.3423 1.2246	1.2637	1.2769	1.2595	1.2342	Ave		1.2669			0.5000	3.3		15.0			
n-Heptane	0.0916 0.0954	0.0869	0.0911	0.0904	0.0929	Ave		0.0914				3.1		15.0			
Trichloroethene	0.3683 0.3256	0.3249	0.3324	0.3350	0.3276	Ave		0.3356			0.2000	4.9		15.0			
Methylcyclohexane	0.5100 0.4822	0.5073	0.4871	0.4906	0.4941	Ave		0.4952			0.1000	2.3		15.0			
1,2-Dichloropropane	0.2724 0.2694	0.2853	0.2818	0.2887	0.2785	Ave		0.2793			0.1000	2.7		15.0			
Dibromomethane	0.1429 0.1344	0.1381	0.1431	0.1438	0.1388	Ave		0.1402				2.6		15.0			
1,4-Dioxane	0.0011 0.0010	0.0012	0.0012	0.0011	0.0013	Ave		0.0012				11.0		15.0			
Bromodichloromethane	0.3493 0.3532	0.3386	0.3501	0.3560	0.3530	Ave		0.3500			0.1000	1.7		15.0			
2-Chloroethyl vinyl ether	0.0184 0.0314	0.0195	0.0242	0.0274	0.0291	Lin1	-0.037	0.0308							0.9970		0.9900
cis-1,3-Dichloropropene	0.3347 0.4061	0.3393	0.3749	0.3963	0.4040	Ave		0.3759			0.1500	8.5		15.0			
4-Methyl-2-pentanone (MIBK)	0.1015 0.1023	0.0943	0.0935	0.0929	0.1027	Ave		0.0979			0.0500	4.9		15.0			
Toluene	2.3151 2.1919	2.3509	2.3213	2.2557	2.2659	Ave		2.2835			0.4000	2.5		15.0			
trans-1,3-Dichloropropene	0.4815 0.5459	0.4845	0.5140	0.5222	0.5535	Ave		0.5169			0.1000	5.8		15.0			
Ethyl methacrylate	0.2865 0.3302	0.2935	0.2680	0.2735	0.3135	Ave		0.2942				8.1		15.0			
1,1,2-Trichloroethane	0.3823 0.3344	0.3670	0.3704	0.3556	0.3648	Ave		0.3624			0.1000	4.5		15.0			
1,3-Dichloropropane	0.6433 0.5847	0.6604	0.6359	0.6356	0.6330	Ave		0.6321				4.0		15.0			
Tetrachloroethene	0.4857 0.4345	0.4644	0.4580	0.4382	0.4421	Ave		0.4538			0.2000	4.3		15.0			
2-Hexanone	0.1273 0.1120	0.1457	0.1349	0.1212	0.1225	Ave		0.1273			0.0500	9.2		15.0			
Chlorodibromomethane	0.3734 0.3819	0.3890	0.3706	0.3774	0.3903	Ave		0.3804				2.1		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:37 Calibration End Date: 10/02/2014 10:30 Calibration ID: 24490

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-Dibromoethane	0.3387 0.3037	0.3258	0.3161	0.3185	0.3249	Ave		0.3213				3.6		15.0			
Chlorobenzene	1.1382 1.1056	1.2006	1.1522	1.1234	1.1475	Ave		1.1446			0.3000	2.8		15.0			
1,1,1,2-Tetrachloroethane	0.4271 0.3830	0.4016	0.3981	0.3949	0.3962	Ave		0.4002				3.7		15.0			
Ethylbenzene	0.5853 0.6209	0.6008	0.5956	0.6037	0.6245	Ave		0.6052				2.5		15.0			
m-Xylene & p-Xylene	0.6904 0.7251	0.6762	0.6949	0.7024	0.7291	Ave		0.7030				2.9		15.0			
o-Xylene	0.6331 0.6360	0.6571	0.6226	0.6354	0.6433	Ave		0.6379				1.8		15.0			
Styrene	0.9305 0.9838	0.8922	0.9597	0.9323	0.9784	Ave		0.9461			0.3000	3.7		15.0			
Bromoform	0.1558 0.1723	0.1584	0.1600	0.1699	0.1719	Ave		0.1647			0.1000	4.5		15.0			
Isopropylbenzene	1.5794 1.4839	1.5455	1.4856	1.4529	1.4993	Ave		1.5078			0.1000	3.1		15.0			
1,1,2,2-Tetrachloroethane	0.6259 0.5424	0.6055	0.6103	0.6100	0.6072	Ave		0.6002			0.3000	4.9		15.0			
Bromobenzene	0.8594 0.8839	0.8573	0.8603	0.8684	0.9091	Ave		0.8731				2.3		15.0			
1,2,3-Trichloropropane	0.1990 0.1834	0.1987	0.2114	0.2011	0.2007	Ave		0.1991				4.5		15.0			
trans-1,4-Dichloro-2-butene	0.1128 0.1431	0.1302	0.1216	0.1396	0.1465	Ave		0.1323				10.0		15.0			
N-Propylbenzene	0.8736 0.9316	0.8242	0.8740	0.9072	0.9553	Ave		0.8943				5.3		15.0			
2-Chlorotoluene	0.7457 0.7918	0.7755	0.7865	0.8075	0.8036	Ave		0.7851				2.9		15.0			
1,3,5-Trimethylbenzene	2.3929 2.6280	2.3099	2.5351	2.5696	2.6708	Ave		2.5177				5.5		15.0			
4-Chlorotoluene	0.8105 0.8242	0.8366	0.8268	0.8476	0.8723	Ave		0.8363				2.6		15.0			
tert-Butylbenzene	2.4936 2.3240	2.2876	2.2724	2.5262	2.3962	Ave		2.3833				4.5		15.0			
1,2,4-Trimethylbenzene	2.5175 2.7513	2.5751	2.7243	2.7072	2.8012	Ave		2.6794				4.1		15.0			
sec-Butylbenzene	2.8181 3.0928	3.0461	3.1062	3.0476	3.1765	Ave		3.0479				4.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:37 Calibration End Date: 10/02/2014 10:30 Calibration ID: 24490

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								
1,3-Dichlorobenzene	1.7966 1.6277	1.7657	1.7084	1.6943	1.6948	Ave		1.7146			0.6000	3.5		15.0			
4-Isopropyltoluene	2.4636 2.8036	2.5964	2.7671	2.8127	2.8639	Ave		2.7179				5.7		15.0			
1,4-Dichlorobenzene	1.8126 1.6324	1.7723	1.7234	1.7079	1.7166	Ave		1.7275			0.5000	3.5		15.0			
n-Butylbenzene	2.1320 2.3063	2.1394	2.2390	2.2455	2.3290	Ave		2.2319				3.7		15.0			
1,2-Dichlorobenzene	1.7327 1.5289	1.6573	1.6482	1.6555	1.6228	Ave		1.6409			0.4000	4.0		15.0			
1,2-Dibromo-3-Chloropropane	0.0824 0.1112	0.1163	0.1311	0.1205	0.1282	Ave		0.1149			0.0500	15.0		15.0			
1,2,4-Trichlorobenzene	0.9913 0.9462	0.9608	0.9765	0.9659	0.9833	Ave		0.9706			0.2000	1.7		15.0			
Hexachlorobutadiene	0.4470 0.4454	0.4602	0.4551	0.4300	0.4477	Ave		0.4476				2.3		15.0			
Naphthalene	1.6175 1.7605	1.6666	1.7221	1.8247	1.9201	Ave		1.7519				6.2		15.0			
1,2,3-Trichlorobenzene	0.8219 0.7628	0.8109	0.8151	0.8071	0.8432	Ave		0.8102				3.3		15.0			
Dibromofluoromethane (Surr)	0.3014 0.2675	0.2759	0.2777	0.2795	0.2719	Ave		0.2790				4.2		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3519 0.2959	0.3315	0.3171	0.3140	0.3100	Ave		0.3201				6.1		15.0			
Toluene-d8 (Surr)	2.3212 1.9014	2.0857	2.0430	1.9985	1.9555	Ave		2.0509				7.2		15.0			
4-Bromofluorobenzene (Surr)	0.5041 0.3878	0.4545	0.4311	0.4145	0.4148	Ave		0.4345				9.3		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:37 Calibration End Date: 10/02/2014 10:30 Calibration ID: 24490

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-149716/7	UXJ1272.D
Level 2	STD8260 240-149716/6	UXJ1271.D
Level 3	STD8260 240-149716/5	UXJ1270.D
Level 4	STD8260 240-149716/4	UXJ1269.D
Level 5	STD8260 240-149716/3	UXJ1268.D
Level 6	STD8260 240-149716/2	UXJ1267.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	28753 1605095	52774	140753	293740	664951	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	28689 1420511	56261	143190	288439	625617	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	30871 1588323	60022	156598	317500	684546	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	11256 775820	27309	68380	143380	332472	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	14373 855164	29385	81496	161863	365896	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	30167 1778651	62093	157864	324566	747372	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	35628 1950078	78958	202220	398018	906569	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	30055 1638973	61616	167628	348781	730102	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	11657 693963	22276	59085	131958	276796	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	32451 1806115	68856	177204	357611	787795	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	19021 1124665	41453	108046	216957	486562	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	24219 +++++	35928	89855	180859	389446	2.00 +++++	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	44528 2442915	93109	237952	497741	1071248	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	93423 4710828	182052	461385	954763	2087636	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	25701 1561179	50846	142136	299776	667877	1.00 40.0	2.00	5.00	10.0	20.0
Methyl acetate	FB	Ave	80617 4720654	174065	465578	1001500	2197652	5.00 200	10.0	25.0	50.0	100

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:37 Calibration End Date: 10/02/2014 10:30 Calibration ID: 24490

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methylene Chloride	FB	Lin1	68051 2034505	106288	224704	432274	900354	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butyl alcohol	FB	Ave	9631 613689	21282	54740	121488	283820	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	82149 4941522	176103	476316	1036389	2282454	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	77227 5061423	172452	471120	1017504	2233839	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	41431 2394790	86698	220428	466934	1021115	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	11365 722487	24722	64718	136342	295064	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	69486 3845459	142295	377971	775474	1677182	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	33016 2401124	74876	213241	474454	1059015	0.960 38.4	1.92	4.80	9.60	19.2
2-Butanone (MEK)	FB	Ave	17337 1358617	32646	88646	210088	469582	2.00 80.0	4.00	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	37044 1929692	82457	216656	457534	992099	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	41786 2430241	87955	224882	480355	1044100	1.00 40.0	2.00	5.00	10.0	20.0
Bromochloromethane	FB	Ave	19825 1132212	41656	106934	221055	489920	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	9268 610104	18944	55920	129914	285958	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	65887 3704112	137563	352890	732335	1582575	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	52429 2764270	108671	285451	597802	1303632	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	59712 3155276	116992	310448	653831	1445326	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	52152 2943954	102135	279385	586075	1264127	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	46821 2756166	95901	260711	539726	1206085	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBZ	Ave	9041 +++++	20019	49286	94726	204974	25.0 +++++	50.0	125	250	500
1,2-Dichloroethane	FB	Ave	45809 2500852	93357	245070	515384	1110154	1.00 40.0	2.00	5.00	10.0	20.0
Benzene	FB	Ave	164652 9314786	327600	884973	1845845	3981713	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:37 Calibration End Date: 10/02/2014 10:30 Calibration ID: 24490

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Heptane	FB	Ave	11233 725333	22518	63145	132551	299677	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	45179 2476316	84221	230386	490947	1056784	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	62555 3668080	131520	337571	718943	1594113	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	33410 2049397	73964	195269	423106	898501	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	17524 1022343	35802	99194	210690	447684	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	2623 147391	6411	17175	33553	86316	20.0 800	40.0	100	200	400
Bromodichloromethane	FB	Ave	42844 2686252	87788	242667	521692	1138711	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Lin1	4513 478113	10114	33611	80378	187801	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	41051 3088704	87954	259836	580835	1303303	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	24903 1556937	48913	129548	272176	662896	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	136805 9382880	298260	831568	1798382	3982484	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	28456 2336668	61464	184125	416338	972773	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	16928 1413299	37242	96000	218060	550984	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	22589 1431409	46567	132697	283534	641178	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	38016 2502744	83783	227805	506704	1112579	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	28703 1859858	58914	164056	349334	776936	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	15051 958835	36961	96653	193314	430744	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Ave	22064 1634693	49358	132778	300844	685988	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	20013 1299849	41331	113237	253925	571055	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	67258 4732595	152321	412743	895615	2016842	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	25241 1639538	50945	142618	314831	696395	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:37 Calibration End Date: 10/02/2014 10:30 Calibration ID: 24490

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethylbenzene	CBZ	Ave	34590 2657896	76225	213371	481330	1097651	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	40797 3104106	85791	248944	559971	1281508	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	37411 2722644	83370	223022	506561	1130671	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	54985 4211123	113196	343810	743256	1719599	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	9208 737425	20099	57311	135469	302202	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	93332 6351939	196085	532181	1158334	2635068	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	18436 928910	38511	100154	209029	440299	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	25314 1513826	54529	141188	297572	659231	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	5863 314080	12640	34701	68913	145571	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	3323 245042	8281	19958	47829	106220	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	25734 1595491	52423	143435	310844	692742	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	21965 1356184	49323	129068	276709	582742	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	70486 4500924	146922	416040	880478	1936710	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	23874 1411627	53212	135693	290423	632553	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	73452 3980315	145505	372927	865629	1737574	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	74157 4712227	163788	447089	927657	2031284	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	83011 5297016	193750	509757	1044274	2303471	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	52921 2787766	112308	280369	580581	1229019	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	72568 4801718	165147	454115	963796	2076774	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	53392 2795822	112726	282823	585232	1244801	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	62802 3950035	136078	367450	769425	1688856	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 08:37 Calibration End Date: 10/02/2014 10:30 Calibration ID: 24490

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	51039 2618582	105415	270479	567284	1176807	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	2428 190396	7397	21515	41287	92946	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	29199 1620525	61110	160260	330958	713026	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	13168 762800	29271	74689	147354	324663	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	47645 3015232	106004	282606	625265	1392352	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	24210 1306454	51578	133760	276556	611445	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	36971 2034648	71528	192440	409571	877071	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	43170 2251086	85946	219763	460122	1000249	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	137166 8139402	264620	731881	1593319	3436841	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	29789 1660177	57667	154434	330437	729034	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 10:53 Calibration End Date: 10/02/2014 12:45 Calibration ID: 24492

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-149716/13	UXJ1278.D
Level 2	STD2 240-149716/12	UXJ1277.D
Level 3	STD3 240-149716/11	UXJ1276.D
Level 4	STD4 240-149716/10	UXJ1275.D
Level 5	STD5 240-149716/9	UXJ1274.D
Level 6	STD6 240-149716/8	UXJ1273.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								
Acetonitrile	0.0179 0.0180	0.0169	0.0176	0.0169	0.0175	Ave		0.0175				2.7		15.0			
Diisopropyl ether	0.2235 0.2846	0.2398	0.2487	0.2569	0.2647	Ave		0.2530				8.3		15.0			
2-Chloro-1,3-butadiene	0.4512 0.4636	0.4622	0.4480	0.4373	0.4543	Ave		0.4528				2.1		15.0			
Ethyl tert-butyl ether	0.6272 0.7881	0.6257	0.6842	0.6939	0.7274	Ave		0.6911				9.0		15.0			
Ethyl acetate	0.0495 0.0560	0.0471	0.0460	0.0484	0.0519	Ave		0.0498				7.4		15.0			
Propionitrile	0.0175 0.0216	0.0180	0.0179	0.0191	0.0199	Ave		0.0190				8.3		15.0			
Methacrylonitrile	0.0966 0.1264	0.1032	0.1055	0.1120	0.1195	Ave		0.1106				10.0		15.0			
Tert-amyl methyl ether	0.4880 0.6467	0.4757	0.5161	0.5477	0.5889	Ave		0.5438				12.0		15.0			
n-Butanol	0.0053 0.0039	0.0056	0.0051	0.0053	0.0048	Ave		0.0050				12.0		15.0			
Ethyl acrylate	0.1328 0.2002	0.1480	0.1492	0.1619	0.1763	Ave		0.1614				15.0		15.0			
Methyl methacrylate	0.1113 0.1585	0.1087	0.1136	0.1232	0.1401	Lin1	-0.158	0.1505							0.9910		0.9900
2-Nitropropane	0.0317 0.0416	0.0329	0.0337	0.0348	0.0389	Ave		0.0356				11.0		15.0			
1-Chlorohexane	0.4266 0.5120	0.4496	0.4527	0.4607	0.4836	Ave		0.4642				6.4		15.0			
Cyclohexanone	0.0217 0.0216	0.0211	0.0218	0.0220	0.0226	Ave		0.0218				2.3		15.0			
1,2,3-Trimethylbenzene	2.4960 3.2453	2.4693	2.6230	2.7012	2.8694	Ave		2.7340				11.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 10:53 Calibration End Date: 10/02/2014 12:45 Calibration ID: 24492

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								
1,3,5-Trichlorobenzene	1.2307 1.3152	1.1868	1.1901	1.1355	1.2006	Ave		1.2098				5.0		15.0			
2-Methylnaphthalene	0.4117 +++++	0.3971	0.4402	0.5043	0.6305	Lin	-1.380	0.6450							0.9900		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 10:53 Calibration End Date: 10/02/2014 12:45 Calibration ID: 24492

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-149716/13	UXJ1278.D
Level 2	STD2 240-149716/12	UXJ1277.D
Level 3	STD3 240-149716/11	UXJ1276.D
Level 4	STD4 240-149716/10	UXJ1275.D
Level 5	STD5 240-149716/9	UXJ1274.D
Level 6	STD6 240-149716/8	UXJ1273.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	21686 982893	40589	111511	220050	469968	10.0 400	20.0	50.0	100	200
Diisopropyl ether	FB	Ave	27031 1553293	57457	157675	334300	708736	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	54561 2530633	110770	284032	569082	1216435	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	75839 4301820	149945	433813	902896	1947978	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	11976 611686	22564	58334	126016	278139	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	21161 1181165	43021	113279	249146	534082	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	116864 6902377	247397	669107	1457823	3199766	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	59007 3530261	113991	327245	712651	1577014	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	CBZ	Ave	7803 291613	16037	38579	86090	168724	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	16061 1092699	35479	94630	210718	471980	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Lin1	26923 1730064	52121	144075	320531	750433	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	7658 453887	15772	42741	90506	208333	2.00 80.0	4.00	10.0	20.0	40.0
1-Chlorohexane	CBZ	Ave	25116 1518687	51877	138321	300253	678554	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Ave	6238 254127	11776	31626	65108	134771	10.0 400	20.0	50.0	100	200
1,2,3-Trimethylbenzene	DCB	Ave	71680 3821851	137714	380822	798136	1708273	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	35342 1548861	66187	172786	335503	714773	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-42919-1 Analy Batch No.: 149716

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/02/2014 10:53 Calibration End Date: 10/02/2014 12:45 Calibration ID: 24492

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methylnaphthalene	DCB	Lin	23645 +++++	44298	127832	298026	750707	2.00 +++++	4.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab Sample ID: ICV 240-149716/14 Calibration Date: 10/02/2014 13:07

Instrument ID: A3UX11 Calib Start Date: 10/02/2014 08:37

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:30

Lab File ID: UXJ1279.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	0.2098	0.1523	0.1000	0.00726	0.0100	-27.4*	20.0
Chloromethane	Ave	0.2058	0.1802	0.1000	0.00875	0.0100	-12.5	20.0
Vinyl chloride	Ave	0.2245	0.1997	0.1000	0.00890	0.0100	-11.0	20.0
Bromomethane	Ave	0.0998	0.0958	0.0500	0.00960	0.0100	-4.0	20.0
Chloroethane	Ave	0.1141	0.1113	0.0500	0.00976	0.0100	-2.4	20.0
Dichlorofluoromethane	Ave	0.2334	0.2280		0.00977	0.0100	-2.3	20.0
Trichlorofluoromethane	Ave	0.2826	0.2822	0.1000	0.00999	0.0100	-0.1	20.0
Ethyl ether	Ave	0.2341	0.2510		0.0107	0.0100	7.2	20.0
Acrolein	Ave	0.0178	0.0220		0.0618	0.0500	23.5*	20.0
1,1-Dichloroethene	Ave	0.2519	0.2417	0.1000	0.00959	0.0100	-4.1	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.1529	0.1434	0.0500	0.00938	0.0100	-6.2	20.0
Acetone	Lin1		0.0547	0.0500	0.0176	0.0200	-12.0	20.0
Iodomethane	Ave	0.3431	0.3706		0.0108	0.0100	8.0	20.0
Carbon disulfide	Ave	0.6746	0.6817	0.1000	0.0101	0.0100	1.1	20.0
3-Chloro-1-propene	Ave	0.2046	0.1836		0.00897	0.0100	-10.3	20.0
Methyl acetate	Ave	0.1329	0.1477	0.1000	0.0556	0.0500	11.2	20.0
Methylene Chloride	Lin1		0.2962	0.1000	0.0102	0.0100	1.7	20.0
tert-Butyl alcohol	Ave	0.0082	0.0075		0.0912	0.100	-8.8	20.0
Acrylonitrile	Ave	0.0683	0.0749		0.110	0.100	9.6	20.0
Methyl tert-butyl ether	Ave	0.6711	0.7064	0.1000	0.0105	0.0100	5.3	20.0
trans-1,2-Dichloroethene	Ave	0.3234	0.3238	0.1000	0.0100	0.0100	0.1	20.0
Hexane	Ave	0.0935	0.0950		0.0102	0.0100	1.6	20.0
1,1-Dichloroethane	Ave	0.5359	0.5446	0.1000	0.0102	0.0100	1.6	20.0
Vinyl acetate	Ave	0.3183	0.2953		0.00742	0.00800	-7.2	20.0
2,2-Dichloropropane	Ave	0.3010	0.2962		0.00984	0.0100	-1.6	20.0
2-Butanone (MEK)	Ave	0.0719	0.0677	0.0500	0.0188	0.0200	-5.9	20.0
cis-1,2-Dichloroethene	Ave	0.3292	0.3253	0.1000	0.00988	0.0100	-1.2	20.0
Bromochloromethane	Ave	0.1547	0.1541		0.00996	0.0100	-0.4	20.0
Tetrahydrofuran	Ave	0.0406	0.0470		0.0232	0.0200	15.8	20.0
Chloroform	Ave	0.5090	0.5059	0.2000	0.00994	0.0100	-0.6	20.0
1,1,1-Trichloroethane	Ave	0.4056	0.3978	0.1000	0.00981	0.0100	-1.9	20.0
Cyclohexane	Ave	0.4492	0.4515	0.1000	0.0101	0.0100	0.5	20.0
1,1-Dichloropropene	Ave	0.4002	0.4301		0.0107	0.0100	7.5	20.0
Carbon tetrachloride	Ave	0.3720	0.3735	0.1000	0.0100	0.0100	0.4	20.0
Isobutyl alcohol	Ave	0.0055	0.0052		0.238	0.250	-4.9	20.0
1,2-Dichloroethane	Ave	0.3520	0.3681	0.1000	0.0105	0.0100	4.6	20.0
Benzene	Ave	1.267	1.252	0.5000	0.00989	0.0100	-1.1	20.0
n-Heptane	Ave	0.0914	0.0887		0.00971	0.0100	-2.9	20.0
Trichloroethene	Ave	0.3356	0.3388	0.2000	0.0101	0.0100	1.0	20.0
Methylcyclohexane	Ave	0.4952	0.4990	0.1000	0.0101	0.0100	0.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab Sample ID: ICV 240-149716/14 Calibration Date: 10/02/2014 13:07

Instrument ID: A3UX11 Calib Start Date: 10/02/2014 08:37

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:30

Lab File ID: UXJ1279.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-Dichloropropane	Ave	0.2793	0.2833	0.1000	0.0101	0.0100	1.4	20.0
1,4-Dioxane	Ave	0.0012	0.0008		0.141	0.200	-29.5*	20.0
Dibromomethane	Ave	0.1402	0.1498		0.0107	0.0100	6.8	20.0
Bromodichloromethane	Ave	0.3500	0.3500	0.1000	0.0100	0.0100	-0.0	20.0
2-Chloroethyl vinyl ether	Lin1		0.0270		0.0117	0.0120	-2.4	20.0
cis-1,3-Dichloropropene	Ave	0.3759	0.4037	0.1500	0.0107	0.0100	7.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0979	0.1060	0.0500	0.0217	0.0200	8.3	20.0
Toluene	Ave	2.283	2.226	0.4000	0.00975	0.0100	-2.5	20.0
trans-1,3-Dichloropropene	Ave	0.5169	0.5842	0.1000	0.0113	0.0100	13.0	20.0
Ethyl methacrylate	Ave	0.2942	0.3185		0.0108	0.0100	8.3	20.0
1,1,2-Trichloroethane	Ave	0.3624	0.3631	0.1000	0.0100	0.0100	0.2	20.0
1,3-Dichloropropane	Ave	0.6321	0.6381		0.0101	0.0100	0.9	20.0
Tetrachloroethene	Ave	0.4538	0.4412	0.2000	0.00972	0.0100	-2.8	20.0
2-Hexanone	Ave	0.1273	0.1322	0.0500	0.0208	0.0200	3.9	20.0
Chlorodibromomethane	Ave	0.3804	0.3837		0.0101	0.0100	0.9	20.0
1,2-Dibromoethane	Ave	0.3213	0.3202		0.00997	0.0100	-0.3	20.0
Chlorobenzene	Ave	1.145	1.119	0.3000	0.00978	0.0100	-2.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4002	0.3860		0.00965	0.0100	-3.5	20.0
Ethylbenzene	Ave	0.6052	0.5917		0.00978	0.0100	-2.2	20.0
m-Xylene & p-Xylene	Ave	0.7030	0.6984		0.00993	0.0100	-0.7	20.0
o-Xylene	Ave	0.6379	0.6339		0.00994	0.0100	-0.6	20.0
Styrene	Ave	0.9461	0.9576	0.3000	0.0101	0.0100	1.2	20.0
Bromoform	Ave	0.1647	0.1722	0.1000	0.0105	0.0100	4.6	20.0
Isopropylbenzene	Ave	1.508	1.469	0.1000	0.00975	0.0100	-2.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6002	0.6602	0.3000	0.0110	0.0100	10.0	20.0
Bromobenzene	Ave	0.8731	0.8628		0.00988	0.0100	-1.2	20.0
1,2,3-Trichloropropane	Ave	0.1991	0.2260		0.0114	0.0100	13.5	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1323	0.1479		0.0112	0.0100	11.8	20.0
N-Propylbenzene	Ave	0.8943	0.8871		0.00992	0.0100	-0.8	20.0
2-Chlorotoluene	Ave	0.7851	0.7705		0.00981	0.0100	-1.9	20.0
1,3,5-Trimethylbenzene	Ave	2.518	2.507		0.00996	0.0100	-0.4	20.0
4-Chlorotoluene	Ave	0.8363	0.7993		0.00956	0.0100	-4.4	20.0
tert-Butylbenzene	Ave	2.383	2.234		0.00937	0.0100	-6.3	20.0
1,2,4-Trimethylbenzene	Ave	2.679	2.620		0.00978	0.0100	-2.2	20.0
sec-Butylbenzene	Ave	3.048	2.969		0.00974	0.0100	-2.6	20.0
1,3-Dichlorobenzene	Ave	1.715	1.566	0.6000	0.00913	0.0100	-8.7	20.0
4-Isopropyltoluene	Ave	2.718	2.651		0.00975	0.0100	-2.5	20.0
1,4-Dichlorobenzene	Ave	1.728	1.645	0.5000	0.00952	0.0100	-4.8	20.0
n-Butylbenzene	Ave	2.232	2.072		0.00928	0.0100	-7.2	20.0
1,2-Dichlorobenzene	Ave	1.641	1.556	0.4000	0.00948	0.0100	-5.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1149	0.1264	0.0500	0.0110	0.0100	9.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab Sample ID: ICV 240-149716/14 Calibration Date: 10/02/2014 13:07

Instrument ID: A3UX11 Calib Start Date: 10/02/2014 08:37

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:30

Lab File ID: UXJ1279.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
1,2,4-Trichlorobenzene	Ave	0.9706	0.8804	0.2000	0.00907	0.0100	-9.3	20.0
Hexachlorobutadiene	Ave	0.4476	0.3689		0.00824	0.0100	-17.6	20.0
Naphthalene	Ave	1.752	1.823		0.0104	0.0100	4.0	20.0
1,2,3-Trichlorobenzene	Ave	0.8102	0.7661		0.00946	0.0100	-5.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2790	0.2503		0.00748	0.00834	-10.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3201	0.2764		0.00720	0.00834	-13.7	20.0
Toluene-d8 (Surr)	Ave	2.051	1.792		0.00729	0.00834	-12.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4345	0.4036		0.00775	0.00834	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab Sample ID: ICV 240-149716/15 Calibration Date: 10/02/2014 13:30

Instrument ID: A3UX11 Calib Start Date: 10/02/2014 10:53

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 12:45

Lab File ID: UXJ1280.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
Acetonitrile	Ave	0.0175	0.0185		0.106	0.100	6.0	20.0
Diisopropyl ether	Ave	0.2530	0.2832		0.0112	0.0100	11.9	20.0
2-Chloro-1,3-butadiene	Ave	0.4528	0.4658		0.0103	0.0100	2.9	20.0
Ethyl tert-butyl ether	Ave	0.6911	0.7456		0.0108	0.0100	7.9	20.0
Ethyl acetate	Ave	0.0498	0.0776		0.0311	0.0200	55.6*	20.0
Propionitrile	Ave	0.0190	0.0213		0.112	0.100	11.8	20.0
Methacrylonitrile	Ave	0.1106	0.1226		0.111	0.100	10.9	20.0
Tert-amyl methyl ether	Ave	0.5438	0.5870		0.0108	0.0100	7.9	20.0
n-Butanol	Ave	0.0050	0.0042		0.212	0.250	-15.1	20.0
Ethyl acrylate	Ave	0.1614	0.1768		0.0110	0.0100	9.5	20.0
Methyl methacrylate	Lin1		0.1383		0.0194	0.0200	-2.9	20.0
2-Nitropropane	Ave	0.0356	0.0384		0.0216	0.0200	7.8	20.0
1-Chlorohexane	Ave	0.4642	0.4650		0.0100	0.0100	0.2	20.0
Cyclohexanone	Ave	0.0218	0.0161		0.0738	0.100	-26.2*	20.0
1,2,3-Trimethylbenzene	Ave	2.734	2.860		0.0105	0.0100	4.6	20.0
1,3,5-Trichlorobenzene	Ave	1.210	1.191		0.00985	0.0100	-1.5	20.0
2-Methylnaphthalene	Lin		0.4464		0.0160	0.0200	-20.1*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab Sample ID: CCVIS 240-151736/2 Calibration Date: 10/15/2014 11:01

Instrument ID: A3UX11 Calib Start Date: 10/02/2014 08:37

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:30

Lab File ID: UXJ1703.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	0.2098	0.1670	0.1000	0.00796	0.0100	-20.4*	20.0
Chloromethane	Ave	0.2058	0.2158	0.1000	0.0105	0.0100	4.8	20.0
Vinyl chloride	Ave	0.2245	0.2048	0.1000	0.00912	0.0100	-8.8	20.0
Bromomethane	Ave	0.0998	0.0834	0.0500	0.00835	0.0100	-16.5	20.0
Chloroethane	Ave	0.1141	0.1004	0.0500	0.00880	0.0100	-12.0	20.0
Dichlorofluoromethane	Ave	0.2334	0.2389		0.0102	0.0100	2.4	20.0
Trichlorofluoromethane	Ave	0.2826	0.2687	0.1000	0.00951	0.0100	-4.9	20.0
Ethyl ether	Ave	0.2341	0.2391		0.0102	0.0100	2.2	20.0
Acrolein	Ave	0.0178	0.0195		0.0549	0.0500	9.8	20.0
1,1-Dichloroethene	Ave	0.2519	0.2351	0.1000	0.00933	0.0100	-6.7	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.1529	0.1284	0.0500	0.00839	0.0100	-16.1	20.0
Acetone	Lin1		0.0685	0.0500	0.0223	0.0200	11.6	20.0
Iodomethane	Ave	0.3431	0.3267		0.00952	0.0100	-4.8	20.0
Carbon disulfide	Ave	0.6746	0.5912	0.1000	0.00876	0.0100	-12.4	20.0
3-Chloro-1-propene	Ave	0.2046	0.2057		0.0101	0.0100	0.5	20.0
Methyl acetate	Ave	0.1329	0.1497	0.1000	0.0564	0.0500	12.7	20.0
Methylene Chloride	Lin1		0.3120	0.1000	0.0108	0.0100	7.7	20.0
tert-Butyl alcohol	Ave	0.0082	0.0098		0.120	0.100	19.6	20.0
Acrylonitrile	Ave	0.0683	0.0750		0.110	0.100	9.7	20.0
Methyl tert-butyl ether	Ave	0.6711	0.7728	0.1000	0.0115	0.0100	15.2	20.0
trans-1,2-Dichloroethene	Ave	0.3234	0.3316	0.1000	0.0103	0.0100	2.5	20.0
Hexane	Ave	0.0935	0.0778		0.00832	0.0100	-16.8	20.0
1,1-Dichloroethane	Ave	0.5359	0.5641	0.1000	0.0105	0.0100	5.3	20.0
Vinyl acetate	Ave	0.3183	0.3240		0.00977	0.00960	1.8	20.0
2,2-Dichloropropane	Ave	0.3010	0.3158		0.0105	0.0100	4.9	20.0
2-Butanone (MEK)	Ave	0.0719	0.0801	0.0500	0.0223	0.0200	11.4	20.0
cis-1,2-Dichloroethene	Ave	0.3292	0.3561	0.1000	0.0108	0.0100	8.2	20.0
Bromochloromethane	Ave	0.1547	0.1642		0.0106	0.0100	6.1	20.0
Tetrahydrofuran	Ave	0.0406	0.0497		0.0245	0.0200	22.5*	20.0
Chloroform	Ave	0.5090	0.5679	0.2000	0.0112	0.0100	11.6	20.0
1,1,1-Trichloroethane	Ave	0.4056	0.4322	0.1000	0.0107	0.0100	6.6	20.0
Cyclohexane	Ave	0.4492	0.3916	0.1000	0.00872	0.0100	-12.8	20.0
1,1-Dichloropropene	Ave	0.4002	0.4127		0.0103	0.0100	3.1	20.0
Carbon tetrachloride	Ave	0.3720	0.3875	0.1000	0.0104	0.0100	4.2	20.0
Isobutyl alcohol	Ave	0.0055	0.0049		0.225	0.250	-9.9	20.0
1,2-Dichloroethane	Ave	0.3520	0.4145	0.1000	0.0118	0.0100	17.8	20.0
Benzene	Ave	1.267	1.349	0.5000	0.0107	0.0100	6.5	20.0
n-Heptane	Ave	0.0914	0.0719		0.00787	0.0100	-21.3*	20.0
Trichloroethene	Ave	0.3356	0.3622	0.2000	0.0108	0.0100	7.9	20.0
Methylcyclohexane	Ave	0.4952	0.4424	0.1000	0.00893	0.0100	-10.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab Sample ID: CCVIS 240-151736/2 Calibration Date: 10/15/2014 11:01

Instrument ID: A3UX11 Calib Start Date: 10/02/2014 08:37

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:30

Lab File ID: UXJ1703.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-Dichloropropane	Ave	0.2793	0.3159	0.1000	0.0113	0.0100	13.1	20.0
Dibromomethane	Ave	0.1402	0.1614		0.0115	0.0100	15.2	20.0
1,4-Dioxane	Ave	0.0012	0.0012		0.199	0.200	-0.3	20.0
Bromodichloromethane	Ave	0.3500	0.4185	0.1000	0.0120	0.0100	19.6	20.0
2-Chloroethyl vinyl ether	Lin1		0.0411		0.0279	0.0200	39.5*	20.0
cis-1,3-Dichloropropene	Ave	0.3759	0.4385	0.1500	0.0117	0.0100	16.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.0979	0.1172	0.0500	0.0240	0.0200	19.8	20.0
Toluene	Ave	2.283	2.202	0.4000	0.00964	0.0100	-3.6	20.0
trans-1,3-Dichloropropene	Ave	0.5169	0.5128	0.1000	0.00992	0.0100	-0.8	20.0
Ethyl methacrylate	Ave	0.2942	0.2975		0.0101	0.0100	1.1	20.0
1,1,2-Trichloroethane	Ave	0.3624	0.3750	0.1000	0.0103	0.0100	3.5	20.0
1,3-Dichloropropane	Ave	0.6321	0.6531		0.0103	0.0100	3.3	20.0
Tetrachloroethene	Ave	0.4538	0.4291	0.2000	0.00945	0.0100	-5.5	20.0
2-Hexanone	Ave	0.1273	0.1145	0.0500	0.0180	0.0200	-10.1	20.0
Chlorodibromomethane	Ave	0.3804	0.4069		0.0107	0.0100	7.0	20.0
1,2-Dibromoethane	Ave	0.3213	0.3274		0.0102	0.0100	1.9	20.0
Chlorobenzene	Ave	1.145	1.221	0.3000	0.0107	0.0100	6.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4002	0.4321		0.0108	0.0100	8.0	20.0
Ethylbenzene	Ave	0.6052	0.6451		0.0107	0.0100	6.6	20.0
m-Xylene & p-Xylene	Ave	0.7030	0.7643		0.0109	0.0100	8.7	20.0
o-Xylene	Ave	0.6379	0.6849		0.0107	0.0100	7.4	20.0
Styrene	Ave	0.9461	1.007	0.3000	0.0106	0.0100	6.4	20.0
Bromoform	Ave	0.1647	0.1860	0.1000	0.0113	0.0100	12.9	20.0
Isopropylbenzene	Ave	1.508	1.567	0.1000	0.0104	0.0100	3.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6002	0.6935	0.3000	0.0116	0.0100	15.5	20.0
Bromobenzene	Ave	0.8731	1.064		0.0122	0.0100	21.9*	20.0
1,2,3-Trichloropropane	Ave	0.1991	0.2269		0.0114	0.0100	14.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1323	0.1400		0.0106	0.0100	5.8	20.0
N-Propylbenzene	Ave	0.8943	1.037		0.0116	0.0100	16.0	20.0
2-Chlorotoluene	Ave	0.7851	0.9610		0.0122	0.0100	22.4*	20.0
1,3,5-Trimethylbenzene	Ave	2.518	2.871		0.0114	0.0100	14.0	20.0
4-Chlorotoluene	Ave	0.8363	0.9626		0.0115	0.0100	15.1	20.0
tert-Butylbenzene	Ave	2.383	2.451		0.0103	0.0100	2.8	20.0
1,2,4-Trimethylbenzene	Ave	2.679	2.937		0.0110	0.0100	9.6	20.0
sec-Butylbenzene	Ave	3.048	3.215		0.0105	0.0100	5.5	20.0
1,3-Dichlorobenzene	Ave	1.715	1.767	0.6000	0.0103	0.0100	3.1	20.0
4-Isopropyltoluene	Ave	2.718	2.824		0.0104	0.0100	3.9	20.0
1,4-Dichlorobenzene	Ave	1.728	1.778	0.5000	0.0103	0.0100	2.9	20.0
n-Butylbenzene	Ave	2.232	2.266		0.0102	0.0100	1.5	20.0
1,2-Dichlorobenzene	Ave	1.641	1.671	0.4000	0.0102	0.0100	1.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1149	0.1189	0.0500	0.0103	0.0100	3.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab Sample ID: CCVIS 240-151736/2 Calibration Date: 10/15/2014 11:01

Instrument ID: A3UX11 Calib Start Date: 10/02/2014 08:37

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 10:30

Lab File ID: UXJ1703.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
1,2,4-Trichlorobenzene	Ave	0.9706	0.9059	0.2000	0.00933	0.0100	-6.7	20.0
Hexachlorobutadiene	Ave	0.4476	0.4274		0.00955	0.0100	-4.5	20.0
Naphthalene	Ave	1.752	1.634		0.00932	0.0100	-6.8	20.0
1,2,3-Trichlorobenzene	Ave	0.8102	0.7797		0.00962	0.0100	-3.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2790	0.2540		0.00759	0.00834	-9.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3201	0.2861		0.00745	0.00834	-10.6	20.0
Toluene-d8 (Surr)	Ave	2.051	1.630		0.00663	0.00834	-20.5*	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4345	0.3762		0.00722	0.00834	-13.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab Sample ID: CCV 240-151736/3 Calibration Date: 10/15/2014 11:47

Instrument ID: A3UX11 Calib Start Date: 10/02/2014 10:53

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/02/2014 12:45

Lab File ID: UXJ1705.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
Acetonitrile	Ave	0.0175	0.0214		0.122	0.100	22.2*	20.0
Diisopropyl ether	Ave	0.2530	0.2773		0.0110	0.0100	9.6	20.0
2-Chloro-1,3-butadiene	Ave	0.4528	0.4738		0.0105	0.0100	4.6	20.0
Ethyl tert-butyl ether	Ave	0.6911	0.8051		0.0117	0.0100	16.5	20.0
Ethyl acetate	Ave	0.0498	0.0649		0.0260	0.0200	30.2*	20.0
Propionitrile	Ave	0.0190	0.0245		0.129	0.100	28.7*	20.0
Methacrylonitrile	Ave	0.1106	0.1336		0.121	0.100	20.9*	20.0
Tert-amyl methyl ether	Ave	0.5438	0.6625		0.0122	0.0100	21.8*	20.0
n-Butanol	Ave	0.0050	0.0036		0.181	0.250	-27.7*	20.0
Ethyl acrylate	Ave	0.1614	0.1955		0.0121	0.0100	21.1*	20.0
Methyl methacrylate	Lin1		0.1635		0.0228	0.0200	13.8	20.0
2-Nitropropane	Ave	0.0356	0.0432		0.0243	0.0200	21.5*	20.0
1-Chlorohexane	Ave	0.4642	0.4313		0.00929	0.0100	-7.1	20.0
Cyclohexanone	Ave	0.0218	0.0302		0.138	0.100	38.2*	20.0
1,2,3-Trimethylbenzene	Ave	2.734	2.731		0.00999	0.0100	-0.1	20.0
1,3,5-Trichlorobenzene	Ave	1.210	1.149		0.00950	0.0100	-5.0	20.0
2-Methylnaphthalene	Lin		0.3668		0.0135	0.0200	-32.4*	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-151736/37

Matrix: Water | Lab File ID: UXJ1709.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 13:17

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.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.37	U	1.0	0.37
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.22	U	1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.30	U	1.0	0.30
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
142-28-9	1,3-Dichloropropane	0.18	U	1.0	0.18
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	4.1	U	10	4.1
110-75-8	2-Chloroethyl vinyl ether	1.2	U	10	1.2
95-49-8	2-Chlorotoluene	0.20	U	1.0	0.20
591-78-6	2-Hexanone	3.9	U	10	3.9
106-43-4	4-Chlorotoluene	0.22	U	1.0	0.22
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	3.6	U	10	3.6
67-64-1	Acetone	3.4	U	10	3.4
71-43-2	Benzene	0.24	U	1.0	0.24
108-86-1	Bromobenzene	0.12	U	1.0	0.12
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	1.0	0.63
75-15-0	Carbon disulfide	0.28	U	1.0	0.28
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-151736/37

Matrix: Water | Lab File ID: UXJ1709.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 13:17

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.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.33	U	1.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.20	U	1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.17	U	1.0	0.17
74-97-5	Bromochloromethane	0.25	U	1.0	0.25
75-71-8	Dichlorodifluoromethane	0.50	U	1.0	0.50
75-27-4	Bromodichloromethane	0.15	U	1.0	0.15
75-65-0	tert-Butyl alcohol	8.7	U	50	8.7
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.19	U	10	0.19
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.16	U	1.0	0.16
75-09-2	Methylene Chloride	0.28	U	1.0	0.28
179601-23-1	m-Xylene & p-Xylene	0.22	U	2.0	0.22
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.22	U	1.0	0.22
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.21	U	1.0	0.21
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.16	U	5.0	0.16
637-92-3	Ethyl tert-butyl ether	0.20	U	5.0	0.20
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.43	U	2.0	0.43
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.19	U	1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-151736/37

Matrix: Water Lab File ID: UXJ1709.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/15/2014 13:17

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.: 151736 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	87		74-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
460-00-4	4-Bromofluorobenzene (Surr)	91		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-151736/4

Matrix: Water Lab File ID: UXJ1704.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/15/2014 11:24

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.: 151736 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	10.3		1.0	0.28
71-55-6	1,1,1-Trichloroethane	10.9		1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	11.5		1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	9.99		1.0	0.37
75-34-3	1,1-Dichloroethane	11.0		1.0	0.26
75-35-4	1,1-Dichloroethene	10.4		1.0	0.45
563-58-6	1,1-Dichloropropene	11.8		1.0	0.22
87-61-6	1,2,3-Trichlorobenzene	9.45		1.0	0.37
96-18-4	1,2,3-Trichloropropane	12.5		1.0	0.30
120-82-1	1,2,4-Trichlorobenzene	8.94		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	10.2		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	10.5		2.0	0.82
95-50-1	1,2-Dichlorobenzene	9.74		1.0	0.17
107-06-2	1,2-Dichloroethane	11.6		1.0	0.20
78-87-5	1,2-Dichloropropane	11.1		1.0	0.22
541-73-1	1,3-Dichlorobenzene	9.81		1.0	0.17
142-28-9	1,3-Dichloropropane	9.91		1.0	0.18
106-46-7	1,4-Dichlorobenzene	9.83		1.0	0.16
594-20-7	2,2-Dichloropropane	10.6		1.0	0.26
78-93-3	2-Butanone (MEK)	21.5		10	4.1
110-75-8	2-Chloroethyl vinyl ether	16.8		10	1.2
95-49-8	2-Chlorotoluene	11.4		1.0	0.20
591-78-6	2-Hexanone	17.4		10	3.9
106-43-4	4-Chlorotoluene	11.0		1.0	0.22
99-87-6	4-Isopropyltoluene	10.1		1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	24.1		10	3.6
67-64-1	Acetone	18.6		10	3.4
71-43-2	Benzene	10.7		1.0	0.24
108-86-1	Bromobenzene	11.5		1.0	0.12
75-25-2	Bromoform	10.7		1.0	0.56
74-83-9	Bromomethane	9.05		1.0	0.63
75-15-0	Carbon disulfide	11.1		1.0	0.28
56-23-5	Carbon tetrachloride	11.5		1.0	0.17
108-90-7	Chlorobenzene	10.3		1.0	0.19
124-48-1	Chlorodibromomethane	10.4		1.0	0.43
75-00-3	Chloroethane	8.44		1.0	0.33

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-151736/4

Matrix: Water | Lab File ID: UXJ1704.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 11:24

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.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	10.7		1.0	0.21
74-87-3	Chloromethane	9.31		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	10.7		1.0	0.20
10061-01-5	cis-1,3-Dichloropropene	11.8		1.0	0.46
74-95-3	Dibromomethane	11.5		1.0	0.17
74-97-5	Bromochloromethane	10.8		1.0	0.25
75-71-8	Dichlorodifluoromethane	7.46		1.0	0.50
75-27-4	Bromodichloromethane	11.4		1.0	0.15
75-65-0	tert-Butyl alcohol	124		50	8.7
100-41-4	Ethylbenzene	10.3		1.0	0.23
87-68-3	Hexachlorobutadiene	8.79		1.0	0.35
98-82-8	Isopropylbenzene	9.90		1.0	0.35
1634-04-4	Methyl tert-butyl ether	11.5		1.0	0.16
75-09-2	Methylene Chloride	11.0		1.0	0.28
179601-23-1	m-Xylene & p-Xylene	10.4		2.0	0.22
91-20-3	Naphthalene	9.74		1.0	0.45
104-51-8	n-Butylbenzene	9.58		1.0	0.22
103-65-1	N-Propylbenzene	11.3		1.0	0.40
95-47-6	o-Xylene	10.4		1.0	0.21
135-98-8	sec-Butylbenzene	10.1		1.0	0.48
100-42-5	Styrene	10.3		1.0	0.45
127-18-4	Tetrachloroethene	9.39		1.0	0.20
108-88-3	Toluene	9.54		1.0	0.22
156-60-5	trans-1,2-Dichloroethene	10.8		1.0	0.26
10061-02-6	trans-1,3-Dichloropropene	10.5		1.0	0.56
79-01-6	Trichloroethene	11.0		1.0	0.15
75-69-4	Trichlorofluoromethane	10.3		1.0	0.49
108-05-4	Vinyl acetate	7.88		2.0	0.41
75-01-4	Vinyl chloride	9.00		1.0	0.29
1330-20-7	Xylenes, Total	20.8		2.0	0.43
98-06-6	tert-Butylbenzene	10.0		1.0	0.41
106-93-4	1,2-Dibromoethane	9.91		1.0	0.19

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-151736/4

Matrix: Water Lab File ID: UXJ1704.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/15/2014 11:24

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.: 151736 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	84		74-120
1868-53-7	Dibromofluoromethane (Surr)	95		75-121
460-00-4	4-Bromofluorobenzene (Surr)	92		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-1-100914 MS | Lab Sample ID: 240-42919-4 MS

Matrix: Water | Lab File ID: UXJ1731.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 21:35

Soil Aliquot Vol: | Dilution Factor: 2000

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

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

Analysis Batch No.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	20300		2000	560
71-55-6	1,1,1-Trichloroethane	21400		2000	440
79-34-5	1,1,2,2-Tetrachloroethane	21600		2000	440
76-13-1	1,1,2-Trichlorotrifluoroethane	17100		2000	740
75-34-3	1,1-Dichloroethane	22000		2000	520
75-35-4	1,1-Dichloroethene	19000		2000	900
563-58-6	1,1-Dichloropropene	23000		2000	440
87-61-6	1,2,3-Trichlorobenzene	17100		2000	740
96-18-4	1,2,3-Trichloropropane	23800		2000	600
526-73-8	1,2,3-Trimethylbenzene	940	U	10000	940
120-82-1	1,2,4-Trichlorobenzene	15800		2000	640
95-63-6	1,2,4-Trimethylbenzene	18700		2000	820
96-12-8	1,2-Dibromo-3-Chloropropane	19500		4000	1600
95-50-1	1,2-Dichlorobenzene	18500		2000	340
107-06-2	1,2-Dichloroethane	24200		2000	400
78-87-5	1,2-Dichloropropane	23200		2000	440
541-73-1	1,3-Dichlorobenzene	18200		2000	340
142-28-9	1,3-Dichloropropane	20500		2000	360
106-46-7	1,4-Dichlorobenzene	18200		2000	320
594-20-7	2,2-Dichloropropane	18900		2000	520
78-93-3	2-Butanone (MEK)	43500		20000	8200
110-75-8	2-Chloroethyl vinyl ether	30000		20000	2300
95-49-8	2-Chlorotoluene	21100		2000	400
591-78-6	2-Hexanone	35400		20000	7800
106-43-4	4-Chlorotoluene	20200		2000	440
99-87-6	4-Isopropyltoluene	17800		2000	860
108-10-1	4-Methyl-2-pentanone (MIBK)	46800		20000	7200
67-64-1	Acetone	38200		20000	6800
71-43-2	Benzene	21500		2000	480
108-86-1	Bromobenzene	21400		2000	240
75-25-2	Bromoform	20400		2000	1100
74-83-9	Bromomethane	14400		2000	1300
75-15-0	Carbon disulfide	21000		2000	560
56-23-5	Carbon tetrachloride	21100		2000	340
108-90-7	Chlorobenzene	20300		2000	380
124-48-1	Chlorodibromomethane	19900		2000	860

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-1-100914 MS | Lab Sample ID: 240-42919-4 MS

Matrix: Water | Lab File ID: UXJ1731.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 21:35

Soil Aliquot Vol: | Dilution Factor: 2000

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

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

Analysis Batch No.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	14500		2000	660
67-66-3	Chloroform	22100		2000	420
74-87-3	Chloromethane	18000		2000	880
156-59-2	cis-1,2-Dichloroethene	21500		2000	400
10061-01-5	cis-1,3-Dichloropropene	22000		2000	920
74-95-3	Dibromomethane	23600		2000	340
74-97-5	Bromochloromethane	21700		2000	500
75-71-8	Dichlorodifluoromethane	12700		2000	1000
75-27-4	Bromodichloromethane	22500		2000	300
75-65-0	tert-Butyl alcohol	229000		100000	17000
100-41-4	Ethylbenzene	19800		2000	460
87-68-3	Hexachlorobutadiene	13900		2000	700
108-20-3	Diisopropyl ether	380	U	20000	380
98-82-8	Isopropylbenzene	19400		2000	700
1634-04-4	Methyl tert-butyl ether	22800		2000	320
75-09-2	Methylene Chloride	21800		2000	560
179601-23-1	m-Xylene & p-Xylene	20500		4000	440
91-20-3	Naphthalene	16800		2000	900
104-51-8	n-Butylbenzene	16800		2000	440
103-65-1	N-Propylbenzene	20000		2000	800
95-47-6	o-Xylene	20900		2000	420
135-98-8	sec-Butylbenzene	18600		2000	960
100-42-5	Styrene	21000		2000	900
994-05-8	Tert-amyl methyl ether	320	U	10000	320
637-92-3	Ethyl tert-butyl ether	400	U	10000	400
127-18-4	Tetrachloroethene	18300		2000	400
108-88-3	Toluene	19200		2000	440
156-60-5	trans-1,2-Dichloroethene	21300		2000	520
10061-02-6	trans-1,3-Dichloropropene	20400		2000	1100
79-01-6	Trichloroethene	65000		2000	300
75-69-4	Trichlorofluoromethane	17500		2000	980
108-05-4	Vinyl acetate	14500		4000	820
75-01-4	Vinyl chloride	17100		2000	580
1330-20-7	Xylenes, Total	41400		4000	860
98-06-6	tert-Butylbenzene	17900		2000	820
106-93-4	1,2-Dibromoethane	19600		2000	380

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-1-100914 MS Lab Sample ID: 240-42919-4 MS

Matrix: Water Lab File ID: UXJ1731.D

Analysis Method: 8260C Date Collected: 10/09/2014 10:55

Sample wt/vol: 5(mL) Date Analyzed: 10/15/2014 21:35

Soil Aliquot Vol: Dilution Factor: 2000

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151736 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	82		74-120
1868-53-7	Dibromofluoromethane (Surr)	94		75-121
460-00-4	4-Bromofluorobenzene (Surr)	92		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-1-100914 MSD | Lab Sample ID: 240-42919-4 MSD

Matrix: Water | Lab File ID: UXJ1732.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 21:58

Soil Aliquot Vol: | Dilution Factor: 2000

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

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

Analysis Batch No.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	20200		2000	560
71-55-6	1,1,1-Trichloroethane	21200		2000	440
79-34-5	1,1,2,2-Tetrachloroethane	23900		2000	440
76-13-1	1,1,2-Trichlorotrifluoroethane	17300		2000	740
75-34-3	1,1-Dichloroethane	22000		2000	520
75-35-4	1,1-Dichloroethene	20300		2000	900
563-58-6	1,1-Dichloropropene	22900		2000	440
87-61-6	1,2,3-Trichlorobenzene	18300		2000	740
96-18-4	1,2,3-Trichloropropane	23900		2000	600
526-73-8	1,2,3-Trimethylbenzene	940	U	10000	940
120-82-1	1,2,4-Trichlorobenzene	16800		2000	640
95-63-6	1,2,4-Trimethylbenzene	19800		2000	820
96-12-8	1,2-Dibromo-3-Chloropropane	20200		4000	1600
95-50-1	1,2-Dichlorobenzene	19400		2000	340
107-06-2	1,2-Dichloroethane	23900		2000	400
78-87-5	1,2-Dichloropropane	22900		2000	440
541-73-1	1,3-Dichlorobenzene	19100		2000	340
142-28-9	1,3-Dichloropropane	20300		2000	360
106-46-7	1,4-Dichlorobenzene	19700		2000	320
594-20-7	2,2-Dichloropropane	18900		2000	520
78-93-3	2-Butanone (MEK)	44200		20000	8200
110-75-8	2-Chloroethyl vinyl ether	32700		20000	2300
95-49-8	2-Chlorotoluene	22600		2000	400
591-78-6	2-Hexanone	33900		20000	7800
106-43-4	4-Chlorotoluene	21200		2000	440
99-87-6	4-Isopropyltoluene	18500		2000	860
108-10-1	4-Methyl-2-pentanone (MIBK)	48000		20000	7200
67-64-1	Acetone	37700		20000	6800
71-43-2	Benzene	21400		2000	480
108-86-1	Bromobenzene	22000		2000	240
75-25-2	Bromoform	20000		2000	1100
74-83-9	Bromomethane	15300		2000	1300
75-15-0	Carbon disulfide	20900		2000	560
56-23-5	Carbon tetrachloride	21300		2000	340
108-90-7	Chlorobenzene	20600		2000	380
124-48-1	Chlorodibromomethane	20100		2000	860

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-1-100914 MSD | Lab Sample ID: 240-42919-4 MSD

Matrix: Water | Lab File ID: UXJ1732.D

Analysis Method: 8260C | Date Collected: 10/09/2014 10:55

Sample wt/vol: 5(mL) | Date Analyzed: 10/15/2014 21:58

Soil Aliquot Vol: | Dilution Factor: 2000

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

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

Analysis Batch No.: 151736 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	14900		2000	660
67-66-3	Chloroform	21600		2000	420
74-87-3	Chloromethane	17800		2000	880
156-59-2	cis-1,2-Dichloroethene	21200		2000	400
10061-01-5	cis-1,3-Dichloropropene	22500		2000	920
74-95-3	Dibromomethane	22900		2000	340
74-97-5	Bromochloromethane	21400		2000	500
75-71-8	Dichlorodifluoromethane	12300		2000	1000
75-27-4	Bromodichloromethane	22100		2000	300
75-65-0	tert-Butyl alcohol	248000		100000	17000
100-41-4	Ethylbenzene	20200		2000	460
87-68-3	Hexachlorobutadiene	15300		2000	700
108-20-3	Diisopropyl ether	380	U	20000	380
98-82-8	Isopropylbenzene	19800		2000	700
1634-04-4	Methyl tert-butyl ether	23500		2000	320
75-09-2	Methylene Chloride	22100		2000	560
179601-23-1	m-Xylene & p-Xylene	20700		4000	440
91-20-3	Naphthalene	18100		2000	900
104-51-8	n-Butylbenzene	17700		2000	440
103-65-1	N-Propylbenzene	22000		2000	800
95-47-6	o-Xylene	20600		2000	420
135-98-8	sec-Butylbenzene	19300		2000	960
100-42-5	Styrene	20900		2000	900
994-05-8	Tert-amyl methyl ether	320	U	10000	320
637-92-3	Ethyl tert-butyl ether	400	U	10000	400
127-18-4	Tetrachloroethene	18500		2000	400
108-88-3	Toluene	19100		2000	440
156-60-5	trans-1,2-Dichloroethene	21200		2000	520
10061-02-6	trans-1,3-Dichloropropene	20300		2000	1100
79-01-6	Trichloroethene	68000		2000	300
75-69-4	Trichlorofluoromethane	17400		2000	980
108-05-4	Vinyl acetate	14500		4000	820
75-01-4	Vinyl chloride	17400		2000	580
1330-20-7	Xylenes, Total	41300		4000	860
98-06-6	tert-Butylbenzene	19100		2000	820
106-93-4	1,2-Dibromoethane	20200		2000	380

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Client Sample ID: WSP-1-100914 MSD Lab Sample ID: 240-42919-4 MSD

Matrix: Water Lab File ID: UXJ1732.D

Analysis Method: 8260C Date Collected: 10/09/2014 10:55

Sample wt/vol: 5(mL) Date Analyzed: 10/15/2014 21:58

Soil Aliquot Vol: Dilution Factor: 2000

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 151736 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	85		74-120
1868-53-7	Dibromofluoromethane (Surr)	96		75-121
460-00-4	4-Bromofluorobenzene (Surr)	93		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		63-129

ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: A3UX11 Start Date: 10/13/2014 09:03

Analysis Batch Number: 151299 End Date: 10/13/2014 13:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-151299/1		10/13/2014 09:03	1	BFB1013.D	DB-624 0.18(mm)
CCV 240-151299/2		10/13/2014 09:40	1		DB-624 0.18(mm)
ZZZZZ		10/13/2014 10:45	1		DB-624 0.18(mm)
CCV 240-151299/3		10/13/2014 11:08	1		DB-624 0.18(mm)
ZZZZZ		10/13/2014 11:53	1		DB-624 0.18(mm)
ZZZZZ		10/13/2014 12:18	1		DB-624 0.18(mm)
ZZZZZ		10/13/2014 12:41	1		DB-624 0.18(mm)
ZZZZZ		10/13/2014 13:04	1		DB-624 0.18(mm)
ZZZZZ		10/13/2014 13:26	1		DB-624 0.18(mm)
ZZZZZ		10/13/2014 13:49	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: A3UX11 Start Date: 10/02/2014 07:58

Analysis Batch Number: 149716 End Date: 10/02/2014 19:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-149716/1		10/02/2014 07:58	1	BFB102.D	DB-624 0.18(mm)
STD8260 240-149716/2 IC		10/02/2014 08:37	1	UXJ1267.D	DB-624 0.18(mm)
STD8260 240-149716/3 IC		10/02/2014 09:00	1	UXJ1268.D	DB-624 0.18(mm)
STD8260 240-149716/4 ICIS		10/02/2014 09:22	1	UXJ1269.D	DB-624 0.18(mm)
STD8260 240-149716/5 IC		10/02/2014 09:45	1	UXJ1270.D	DB-624 0.18(mm)
STD8260 240-149716/6 IC		10/02/2014 10:07	1	UXJ1271.D	DB-624 0.18(mm)
STD8260 240-149716/7 IC		10/02/2014 10:30	1	UXJ1272.D	DB-624 0.18(mm)
STD6 240-149716/8 IC		10/02/2014 10:53	1	UXJ1273.D	DB-624 0.18(mm)
STD5 240-149716/9 IC		10/02/2014 11:15	1	UXJ1274.D	DB-624 0.18(mm)
STD4 240-149716/10 IC		10/02/2014 11:38	1	UXJ1275.D	DB-624 0.18(mm)
STD3 240-149716/11 IC		10/02/2014 11:59	1	UXJ1276.D	DB-624 0.18(mm)
STD2 240-149716/12 IC		10/02/2014 12:22	1	UXJ1277.D	DB-624 0.18(mm)
STD1 240-149716/13 IC		10/02/2014 12:45	1	UXJ1278.D	DB-624 0.18(mm)
ICV 240-149716/14		10/02/2014 13:07	1	UXJ1279.D	DB-624 0.18(mm)
ICV 240-149716/15		10/02/2014 13:30	1	UXJ1280.D	DB-624 0.18(mm)
ZZZZZ		10/02/2014 13:53	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 14:38	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 16:02	2		DB-624 0.18(mm)
ZZZZZ		10/02/2014 16:25	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 16:48	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 17:10	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 17:33	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 17:54	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 18:17	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 18:40	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 19:02	1		DB-624 0.18(mm)
ZZZZZ		10/02/2014 19:25	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: A3UX11 Start Date: 10/15/2014 10:34

Analysis Batch Number: 151736 End Date: 10/15/2014 21:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-151736/1		10/15/2014 10:34	1	BFB1015A.D	DB-624 0.18(mm)
CCVIS 240-151736/2		10/15/2014 11:01	1	UXJ1703.D	DB-624 0.18(mm)
LCS 240-151736/4		10/15/2014 11:24	1	UXJ1704.D	DB-624 0.18(mm)
CCV 240-151736/3		10/15/2014 11:47	1	UXJ1705.D	DB-624 0.18(mm)
ZZZZZ		10/15/2014 12:09	1		DB-624 0.18(mm)
ZZZZZ		10/15/2014 12:55	1		DB-624 0.18(mm)
MB 240-151736/37		10/15/2014 13:17	1	UXJ1709.D	DB-624 0.18(mm)
240-42919-1	WSP-4-100914	10/15/2014 14:26	1	UXJ1712.D	DB-624 0.18(mm)
240-42919-2	WSP-3-100914	10/15/2014 14:48	1	UXJ1713.D	DB-624 0.18(mm)
240-42919-3	WSP-2-100914	10/15/2014 15:11	1	UXJ1714.D	DB-624 0.18(mm)
240-42919-5	TB-100914	10/15/2014 15:34	1	UXJ1715.D	DB-624 0.18(mm)
ZZZZZ		10/15/2014 15:57	1		DB-624 0.18(mm)
ZZZZZ		10/15/2014 16:19	1		DB-624 0.18(mm)
ZZZZZ		10/15/2014 16:42	1		DB-624 0.18(mm)
ZZZZZ		10/15/2014 17:05	1		DB-624 0.18(mm)
ZZZZZ		10/15/2014 17:26	1		DB-624 0.18(mm)
ZZZZZ		10/15/2014 17:49	1		DB-624 0.18(mm)
ZZZZZ		10/15/2014 18:12	1		DB-624 0.18(mm)
ZZZZZ		10/15/2014 18:34	1		DB-624 0.18(mm)
240-42919-4	WSP-1-100914	10/15/2014 21:12	2000	UXJ1730.D	DB-624 0.18(mm)
240-42919-4 MS	WSP-1-100914 MS	10/15/2014 21:35	2000	UXJ1731.D	DB-624 0.18(mm)
240-42919-4 MSD	WSP-1-100914 MSD	10/15/2014 21:58	2000	UXJ1732.D	DB-624 0.18(mm)

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-42919-1

SDG No.:

Project: MRC Block E MPE System O&M

Client Sample ID	Lab Sample ID
WSP-4-100914	240-42919-1
WSP-2-100914	240-42919-3
WSP-1-100914	240-42919-4

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WSP-4-100914 Lab Sample ID: 240-42919-1

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG ID.:

Matrix: Water Date Sampled: 10/09/2014 10:40

Reporting Basis: WET Date Received: 10/10/2014 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.090	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: WSP-4-100914 Lab Sample ID: 240-42919-1

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG ID.:

Matrix: Water Date Sampled: 10/09/2014 10:40

Reporting Basis: WET Date Received: 10/10/2014 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.92	10	0.92	ug/L	U		1	6010C
7440-43-9	Cadmium	0.14	5.0	0.14	ug/L	U		1	6010C
7440-47-3	Chromium	0.55	10	0.55	ug/L	U		1	6010C
7440-50-8	Copper	10	25	1.9	ug/L	J		1	6010C
7440-02-0	Nickel	52	40	0.76	ug/L			1	6010C
7439-92-1	Lead	5.8	10	1.9	ug/L	J		1	6010C
7440-66-6	Zinc	200	50	9.6	ug/L		B	1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WSP-2-100914 Lab Sample ID: 240-42919-3

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG ID.:

Matrix: Water Date Sampled: 10/09/2014 10:50

Reporting Basis: WET Date Received: 10/10/2014 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.090	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: WSP-2-100914 Lab Sample ID: 240-42919-3

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG ID.:

Matrix: Water Date Sampled: 10/09/2014 10:50

Reporting Basis: WET Date Received: 10/10/2014 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.92	10	0.92	ug/L	U		1	6010C
7440-43-9	Cadmium	0.14	5.0	0.14	ug/L	U		1	6010C
7440-47-3	Chromium	0.55	10	0.55	ug/L	U		1	6010C
7440-50-8	Copper	1.9	25	1.9	ug/L	U		1	6010C
7440-02-0	Nickel	9.8	40	0.76	ug/L	J		1	6010C
7439-92-1	Lead	1.9	10	1.9	ug/L	U		1	6010C
7440-66-6	Zinc	190	50	9.6	ug/L		B	1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: WSP-1-100914 Lab Sample ID: 240-42919-4

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG ID.:

Matrix: Water Date Sampled: 10/09/2014 10:55

Reporting Basis: WET Date Received: 10/10/2014 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.090	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: WSP-1-100914 Lab Sample ID: 240-42919-4

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG ID.:

Matrix: Water Date Sampled: 10/09/2014 10:55

Reporting Basis: WET Date Received: 10/10/2014 08:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	0.92	10	0.92	ug/L	U		1	6010C
7440-43-9	Cadmium	0.14	5.0	0.14	ug/L	U		1	6010C
7440-47-3	Chromium	0.55	10	0.55	ug/L	U		1	6010C
7440-50-8	Copper	13	25	1.9	ug/L	J		1	6010C
7440-02-0	Nickel	94	40	0.76	ug/L			1	6010C
7439-92-1	Lead	3.1	10	1.9	ug/L	J		1	6010C
7440-66-6	Zinc	120	50	9.6	ug/L		B	1	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

ICV Source: MT6500ICV_00021 Concentration Units: ug/L

CCV Source: MTICPCCV_00032

Analyte	ICV 240-151680/4 10/14/2014 08:50				CCV 240-151680/45 10/14/2014 11:46				CCV 240-151680/55 10/14/2014 12:27			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	381		375	102	514		500	103	513		500	103
Chromium	1520		1500	101	1980		2000	99	2030		2000	101
Copper	1520		1500	102	2030		2000	102	2040		2000	102
Lead	376		375	100	483		500	97	483		500	97
Nickel	1510		1500	100	1970		2000	99	1980		2000	99
Silver	773		750	103	1020		1000	102	1030		1000	103
Zinc	1570		1500	105	2020		2000	101	2030		2000	102

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 Canton Job No.: 240-42919-1

SDG No.:

ICV Source: MT6500ICV_00021 Concentration Units: ug/L

CCV Source: MTICPCCV_00032

Analyte	CCV 240-151680/67 10/14/2014 13:14											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	513		500	103								
Chromium	1990		2000	99								
Copper	2040		2000	102								
Lead	479		500	96								
Nickel	1970		2000	98								
Silver	1030		1000	103								
Zinc	2020		2000	101								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

ICV Source: MTHgStd_00011 Concentration Units: ug/L

CCV Source: MTHGCALW_00744

Analyte	ICV 240-151699/7-A 10/14/2014 15:08				CCVL 240-151699/10-A 10/14/2014 15:16				CCV 240-151699/11-A 10/14/2014 20:13			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	2.53		2.50	101	4.98		5.00	100	5.23		5.00	105

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 Canton Job No.: 240-42919-1

SDG No.:

ICV Source: MTHgStd_00011 Concentration Units: ug/L

CCV Source: MTHGCALW_00744

Analyte	CCV 240-151699/11-A 10/14/2014 20:38				CCV 240-151699/11-A 10/14/2014 21:04							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.22		5.00	104	5.12		5.00	102				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Method: 6010C Instrument ID: I12

Lab Sample ID: CRI 240-151680/20 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00022

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	10.0	10.6		106	70-130
Cadmium	5.00	5.07		101	70-130
Chromium	10.0	11.0		110	70-130
Copper	20.0	21.5	J	107	70-130
Nickel	40.0	39.3	J	98	70-130
Lead	10.0	10.4		104	70-130
Zinc	50.0	49.2	J	98	70-130

Lab Sample ID: CRI 240-151680/59 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00022

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	10.0	10.6		106	70-130
Cadmium	5.00	5.12		102	70-130
Chromium	10.0	11.2		112	70-130
Copper	20.0	22.3	J	111	70-130
Nickel	40.0	39.7	J	99	70-130
Lead	10.0	11.2		112	70-130
Zinc	50.0	50.6		101	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Method: 7470A Instrument ID: H1

Lab Sample ID: CRA 240-151699/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00744

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.178	J	89	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-151680/5 10/14/2014 08:54		CCB 240-151680/46 10/14/2014 11:50		CCB 240-151680/56 10/14/2014 12:30		CCB 240-151680/68 10/14/2014 13:18	
		Found	C	Found	C	Found	C	Found	C
Cadmium	5.0	0.14	U	0.14	U	0.14	U	0.14	U
Chromium	10	0.55	U	0.55	U	0.55	U	0.55	U
Copper	25	1.9	U	1.9	U	1.9	U	1.9	U
Lead	10	1.9	U	1.9	U	1.9	U	1.9	U
Nickel	40	0.76	U	0.76	U	0.76	U	0.76	U
Silver	10	0.92	U	0.92	U	0.92	U	0.92	U
Zinc	50	9.6	U	9.6	U	9.6	U	9.6	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-151699/8-A 10/14/2014 15:10		CCB 240-151699/12-A 10/14/2014 20:15		CCB 240-151699/12-A 10/14/2014 20:40		CCB 240-151699/12-A 10/14/2014 21:06	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.090	U	0.090	U	0.090	U	0.090	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-151291/1-A

Instrument Code: I12 Batch No.: 151680

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	0.92	U		6010C
7440-43-9	Cadmium	0.14	U		6010C
7440-47-3	Chromium	0.55	U		6010C
7440-50-8	Copper	1.9	U		6010C
7440-02-0	Nickel	0.76	U		6010C
7439-92-1	Lead	1.9	U		6010C
7440-66-6	Zinc	9.74	J		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-151292/1-A

Instrument Code: H1 Batch No.: 151689

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.090	U		7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Lab Sample ID: ICSA 240-151680/8 Instrument ID: I12

Lab File ID: I12101414A.asc ICS Source: MTTRICSAW_00024

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Cadmium		**1.40**	
Chromium		**2.73**	
Copper		**-2.58**	
Lead		**2.84**	
Nickel		**2.94**	
Silver		**-1.53**	
Zinc		**2.19**	
Aluminum	*500000*	*517690*	*104*
Antimony		*2.88*	
Arsenic		*-0.959*	
Barium		*0.509*	
Beryllium		*0.0891*	
Boron		*2.59*	
Calcium	*500000*	*488150*	*98*
Cobalt		*-7.18*	
Iron	*200000*	*192870*	*96*
Lithium		*-5.47*	
Magnesium	*500000*	*523420*	*105*
Manganese		*0.938*	
Molybdenum		*-1.67*	
Potassium		*-17.9*	
Selenium		*-1.72*	
Silicon		*-6.20*	
Sodium		*46.8*	
Strontium		*6.11*	
Thallium		*-3.03*	
Tin		*4.73*	
Titanium		*-1.34*	
Vanadium		*-1.33*	

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 Canton Job No.: 240-42919-1

SDG No.:

Lab Sample ID: ICSAB 240-151680/9 Instrument ID: I12

Lab File ID: I12101414A.asc ICS Source: MTICPICSABW_00005

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Cadmium	**1000**	**1016**	**102**
Chromium	**500**	**479**	**96**
Copper	**500**	**536**	**107**
Lead	**1000**	**878**	**88**
Nickel	**1000**	**943**	**94**
Silver	**1000**	**1106**	**111**
Zinc	**1000**	**965**	**97**
Aluminum	*500000*	*505770*	*101*
Antimony	*1000*	*999*	*100*
Arsenic	*1000*	*979*	*98*
Barium	*500*	*496*	*99*
Beryllium	*500*	*479*	*96*
Boron	*500*	*509*	*102*
Calcium	*500000*	*476880*	*95*
Cobalt	*500*	*470*	*94*
Iron	*200000*	*189200*	*95*
Lithium	*500*	*514*	*103*
Magnesium	*500000*	*513630*	*103*
Manganese	*500*	*499*	*100*
Molybdenum	*1000*	*931*	*93*
Potassium	*10000*	*10360*	*104*
Selenium	*1000*	*992*	*99*
Silicon	*10000*	*10105*	*101*
Sodium	*10000*	*10586*	*106*
Strontium	*1500*	*1428*	*95*
Thallium	*1000*	*923*	*92*
Tin	*500*	*502*	*100*
Titanium	*500*	*518*	*104*
Vanadium	*500*	*478*	*96*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: Lab ID: 240-42925-E-2-B MS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Silver	54.7		0.92	U	50.0	109	75-125		6010C
Cadmium	54.4		0.26	J	50.0	108	75-125		6010C
Chromium	201		0.55	U	200	101	75-125		6010C
Copper	268		2.6	J	250	106	75-125		6010C
Nickel	518		3.1	J	500	103	75-125		6010C
Lead	493		1.9	U	500	99	75-125		6010C
Zinc	538		11	J	500	105	75-125		6010C

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 240-42925-E-2-E MS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	1.03		0.090	U	1.00	103	69-134		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - TOTAL RECOVERABLE

Client ID: _____ Lab ID: 240-42925-E-2-C MSD

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.: _____

Matrix: Water Concentration Units: ug/L

% Solids: _____

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Silver	55.5		50.0	111	75-125	1	20		6010C
Cadmium	54.3		50.0	108	75-125	0	20		6010C
Chromium	205		200	102	75-125	2	20		6010C
Copper	268		250	106	75-125	0	20		6010C
Nickel	517		500	103	75-125	0	20		6010C
Lead	492		500	98	75-125	0	20		6010C
Zinc	539		500	106	75-125	0	20		6010C

SDR = Sample Duplicate Result

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

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 240-42925-E-2-F MSD

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	1.04		1.00	104	69-134	1	20		7470A

SDR = Sample Duplicate Result

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

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-151291/2-A

Lab Name: TestAmerica Canton Job No.: 240-42919-1

Sample Matrix: Water LCS Source: MTAGSPIKEW_00042

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Silver	50.0	54.2		108	80	120		6010C
Cadmium	50.0	53.3		107	80	120		6010C
Chromium	200	204		102	80	120		6010C
Copper	250	265		106	80	120		6010C
Nickel	500	507		101	80	120		6010C
Lead	500	505		101	80	120		6010C
Zinc	500	526		105	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-151292/2-A

Lab Name: TestAmerica Canton Job No.: 240-42919-1

Sample Matrix: Water LCS Source: MTHGCALW_00743

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	5.22		104	81	123		7470A

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 - TOTAL RECOVERABLE

Lab ID: 240-42925-E-2-A SD ^5

SDG No:

Lab Name: TestAmerica Canton Job No: 240-42919-1

Matrix: Water Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Silver	0.92	U	4.6	U	NC		6010C
Cadmium	0.26	J	0.70	U	NC		6010C
Chromium	0.55	U	2.8	U	NC		6010C
Copper	2.6	J	26.5	J	NC		6010C
Nickel	3.1	J	3.8	U	NC		6010C
Lead	1.9	U	9.5	U	NC		6010C
Zinc	11	J	261		NC		6010C

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-42919-1

SDG Number:

Matrix: Water Instrument ID: I12

Method: 6010C MDL Date: 09/09/2014 14:52

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Cadmium	226.502	5	0.14
Chromium	267.716	10	0.55
Copper	324.753	25	1.9
Lead	220.353	10	1.9
Nickel	231.604	40	0.76
Silver	328.068	10	0.92
Zinc	213.856	50	9.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-42919-1

SDG Number:

Matrix: Water Instrument ID: I12

Method: 6010C XMDL Date: 09/09/2014 14:52

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Cadmium	226.502	5	0.14
Chromium	267.716	10	0.55
Copper	324.753	25	1.9
Lead	220.353	10	1.9
Nickel	231.604	40	0.76
Silver	328.068	10	0.92
Zinc	213.856	50	9.6

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42919-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A MDL Date: 09/17/2014 14:07

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury	253.7	0.2	0.09

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42919-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A XMDL Date: 09/17/2014 14:07

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.09

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-42919-1

SDG No.:

ICP-AES Instrument ID: I12 Date: 07/14/2014

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	V	
Aluminum										0.016418				0.024389	
Antimony		-0.000078			0.000069			-0.000060						0.001892	
Arsenic		0.00002780			0.000011	0.000872			-0.0003550 9	0.000923					
Beryllium														0.000033	
Cadmium			0.012549					-0.000008							
Cobalt													0.002135		
Copper				0.00002889	0.000528			0.000006							
Lead		-0.000084					0.000068	0.000046			0.000131	0.000056			
Lithium				0.000027											
Nickel					0.00051756			0.00007724							
Selenium		-0.000017							0.000338						
Thallium					0.002802				0.00057100				-0.000954	-0.000102	
Vanadium								0.000029							
Zinc						-0.0005917 4									

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-42919-1

SDG No.:

Instrument ID: I12 Date: 07/15/2014 10:31

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		2000	6010C
Cadmium		2000	6010C
Chromium		20000	6010C
Copper		30000	6010C
Nickel		30000	6010C
Lead		15000	6010C
Zinc		10000	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-42919-1

SDG No.:

Instrument ID: H1 Date: 12/10/2013 15:54

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-151291/1-A	10/13/2014 08:56	151291		50	50
LCS 240-151291/2-A	10/13/2014 08:56	151291		50	50
240-42925-E-2-B MS	10/13/2014 08:56	151291		50	50
240-42925-E-2-C MSD	10/13/2014 08:56	151291		50	50
240-42919-1	10/13/2014 08:56	151291		50	50
240-42919-3	10/13/2014 08:56	151291		50	50
240-42919-4	10/13/2014 08:56	151291		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-151292/1-A	10/13/2014 11:45	151292		50	50
LCS 240-151292/2-A	10/13/2014 11:45	151292		50	50
240-42925-E-2-E MS	10/13/2014 11:45	151292		50	50
240-42925-E-2-F MSD	10/13/2014 11:45	151292		50	50
240-42919-1	10/13/2014 11:45	151292		50	50
240-42919-3	10/13/2014 11:45	151292		50	50
240-42919-4	10/13/2014 11:45	151292		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: I12 Method: 6010C

Start Date: 10/14/2014 08:38 End Date: 10/14/2014 23:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
ICIS 240-151680/1	1		08:38	X	X	X	X	X	X	X													
CALSTD 240-151680/2 IC			08:42	X	X	X	X	X	X	X													
CALSTD 240-151680/3 IC			08:46	X	X	X	X	X	X	X													
ICV 240-151680/4	1		08:50	X	X	X	X	X	X	X													
ICB 240-151680/5	1		08:54	X	X	X	X	X	X	X													
CRI 240-151680/6			08:59																				
ZZZZZZ			09:03																				
ICSA 240-151680/8	1		09:07	X	X	X	X	X	X	X													
ICSAB 240-151680/9	1		09:11	X	X	X	X	X	X	X													
CCV 240-151680/10			09:15																				
CCB 240-151680/11			09:19																				
ZZZZZZ			09:23																				
ZZZZZZ			09:27																				
ZZZZZZ			09:31																				
ZZZZZZ			09:36																				
ZZZZZZ			09:40																				
ZZZZZZ			09:44																				
CCV 240-151680/18			09:50																				
CCB 240-151680/19			09:54																				
CRI 240-151680/20	1		09:58	X	X	X	X	X	X	X													
ZZZZZZ			10:02																				
ZZZZZZ			10:06																				
ZZZZZZ			10:10																				
ZZZZZZ			10:14																				
ZZZZZZ			10:18																				
ZZZZZZ			10:22																				
ZZZZZZ			10:26																				
ZZZZZZ			10:30																				
ZZZZZZ			10:34																				
CCV 240-151680/30			10:38																				
CCB 240-151680/31			10:42																				
ZZZZZZ			10:46																				
ZZZZZZ			10:51																				
ZZZZZZ			10:55																				
ZZZZZZ			10:59																				
ZZZZZZ			11:03																				
ZZZZZZ			11:07																				
ZZZZZZ			11:11																				
ZZZZZZ			11:15																				
ZZZZZZ			11:19																				
ZZZZZZ			11:23																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: I12 Method: 6010C

Start Date: 10/14/2014 08:38 End Date: 10/14/2014 23:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
CCV 240-151680/42			11:27																				
CCB 240-151680/43			11:31																				
ZZZZZZ			11:35																				
CCV 240-151680/45	1		11:46	X	X	X	X	X	X	X													
CCB 240-151680/46	1		11:50	X	X	X	X	X	X	X													
MB 240-151291/1-A	1	R	11:54	X	X	X	X	X	X	X													
LCS 240-151291/2-A	1	R	11:58	X	X	X	X	X	X	X													
ZZZZZZ			12:02																				
240-42925-E-2-A SD ^5	5	R	12:07	X	X	X	X	X	X	X													
ZZZZZZ			12:11																				
240-42925-E-2-B MS	1	R	12:15	X	X	X	X	X	X	X													
240-42925-E-2-C MSD	1	R	12:19	X	X	X	X	X	X	X													
240-42919-1	1	R	12:22	X	X	X	X	X	X	X													
CCV 240-151680/55	1		12:27	X	X	X	X	X	X	X													
CCB 240-151680/56	1		12:30	X	X	X	X	X	X	X													
240-42919-3	1	R	12:35	X	X	X	X	X	X	X													
240-42919-4	1	R	12:39	X	X	X	X	X	X	X													
CRI 240-151680/59	1		12:43	X	X	X	X	X	X	X													
ZZZZZZ			12:47																				
ZZZZZZ			12:51																				
ZZZZZZ			12:55																				
ZZZZZZ			12:59																				
ZZZZZZ			13:03																				
ZZZZZZ			13:07																				
ZZZZZZ			13:11																				
CCV 240-151680/67	1		13:14	X	X	X	X	X	X	X													
CCB 240-151680/68	1		13:18	X	X	X	X	X	X	X													
ZZZZZZ			13:22																				
ZZZZZZ			13:27																				
ZZZZZZ			13:31																				
ZZZZZZ			13:35																				
ZZZZZZ			13:39																				
ZZZZZZ			13:43																				
ZZZZZZ			13:47																				
ZZZZZZ			13:51																				
ZZZZZZ			13:55																				
ZZZZZZ			13:59																				
CCV 240-151680/79			14:04																				
CCB 240-151680/80			14:08																				
ZZZZZZ			14:12																				
ZZZZZZ			14:16																				
ZZZZZZ			14:21																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: I12 Method: 6010C

Start Date: 10/14/2014 08:38 End Date: 10/14/2014 23:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
ZZZZZZ			14:25																				
ZZZZZZ			14:29																				
ZZZZZZ			14:33																				
ZZZZZZ			14:37																				
ZZZZZZ			14:41																				
ZZZZZZ			14:45																				
ZZZZZZ			14:49																				
CCV 240-151680/91			14:53																				
CCB 240-151680/92			14:57																				
ZZZZZZ			15:01																				
ZZZZZZ			15:06																				
ZZZZZZ			15:09																				
ZZZZZZ			15:13																				
ZZZZZZ			15:18																				
ZZZZZZ			15:22																				
ZZZZZZ			15:25																				
ZZZZZZ			15:29																				
ZZZZZZ			15:34																				
ZZZZZZ			15:38																				
CCV 240-151680/103			15:42																				
CCB 240-151680/104			15:45																				
ZZZZZZ			15:50																				
ZZZZZZ			15:54																				
ZZZZZZ			15:58																				
ZZZZZZ			16:02																				
ZZZZZZ			16:06																				
ZZZZZZ			16:10																				
ZZZZZZ			16:14																				
ZZZZZZ			16:18																				
ZZZZZZ			16:22																				
ZZZZZZ			16:27																				
CCV 240-151680/115			16:31																				
CCB 240-151680/116			16:35																				
ZZZZZZ			16:39																				
ZZZZZZ			16:43																				
ZZZZZZ			16:47																				
ZZZZZZ			16:51																				
ZZZZZZ			16:55																				
ZZZZZZ			17:00																				
ZZZZZZ			17:04																				
ZZZZZZ			17:08																				
ZZZZZZ			17:12																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: I12 Method: 6010C

Start Date: 10/14/2014 08:38 End Date: 10/14/2014 23:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
ZZZZZZ			17:16																				
CCV 240-151680/127			17:21																				
CCB 240-151680/128			17:25																				
ZZZZZZ			17:29																				
ZZZZZZ			17:33																				
ZZZZZZ			17:37																				
ZZZZZZ			17:41																				
ZZZZZZ			17:45																				
ZZZZZZ			17:49																				
ZZZZZZ			17:53																				
ZZZZZZ			17:57																				
ZZZZZZ			18:02																				
ZZZZZZ			18:06																				
CCV 240-151680/139			18:10																				
CCB 240-151680/140			18:14																				
ZZZZZZ			18:18																				
ZZZZZZ			18:23																				
ZZZZZZ			18:27																				
ZZZZZZ			18:31																				
ZZZZZZ			18:36																				
ZZZZZZ			18:40																				
ZZZZZZ			18:44																				
ZZZZZZ			18:49																				
ZZZZZZ			18:53																				
ZZZZZZ			18:57																				
CCV 240-151680/151			19:02																				
CCB 240-151680/152			19:06																				
ZZZZZZ			19:10																				
ZZZZZZ			19:14																				
ZZZZZZ			19:19																				
ZZZZZZ			19:23																				
ZZZZZZ			19:26																				
ZZZZZZ			19:31																				
ZZZZZZ			19:35																				
ZZZZZZ			19:39																				
ZZZZZZ			19:42																				
ZZZZZZ			19:46																				
CCV 240-151680/163			19:50																				
CCB 240-151680/164			19:54																				
ZZZZZZ			19:58																				
ZZZZZZ			20:02																				
ZZZZZZ			20:07																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: I12 Method: 6010C

Start Date: 10/14/2014 08:38 End Date: 10/14/2014 23:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
ZZZZZZ			20:11																				
ZZZZZZ			20:15																				
ZZZZZZ			20:19																				
ZZZZZZ			20:23																				
ZZZZZZ			20:27																				
ZZZZZZ			20:31																				
ZZZZZZ			20:35																				
CCV 240-151680/175			20:39																				
CCB 240-151680/176			20:43																				
ZZZZZZ			20:47																				
ZZZZZZ			20:51																				
ZZZZZZ			20:55																				
CRI 240-151680/180			20:59																				
ZZZZZZ			21:03																				
ZZZZZZ			21:08																				
ZZZZZZ			21:12																				
ZZZZZZ			21:16																				
ZZZZZZ			21:20																				
ZZZZZZ			21:24																				
CCV 240-151680/187			21:28																				
CCB 240-151680/188			21:32																				
ZZZZZZ			21:36																				
ZZZZZZ			21:40																				
ZZZZZZ			21:44																				
ZZZZZZ			21:48																				
ZZZZZZ			21:52																				
ZZZZZZ			21:55																				
ZZZZZZ			21:59																				
ZZZZZZ			22:03																				
ZZZZZZ			22:07																				
ZZZZZZ			22:11																				
CCV 240-151680/199			22:15																				
CCB 240-151680/200			22:19																				
ZZZZZZ			22:24																				
ZZZZZZ			22:28																				
ZZZZZZ			22:32																				
ZZZZZZ			22:36																				
ZZZZZZ			22:40																				
ZZZZZZ			22:44																				
ZZZZZZ			22:48																				
ZZZZZZ			22:52																				
ZZZZZZ			22:57																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: I12 Method: 6010C

Start Date: 10/14/2014 08:38 End Date: 10/14/2014 23:24

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
ZZZZZZ			23:01																				
CCV 240-151680/211			23:05																				
CCB 240-151680/212			23:09																				
ZZZZZZ			23:13																				
ZZZZZZ			23:17																				
CCV 240-151680/215			23:21																				
CCB 240-151680/216			23:24																				

Prep Types

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/14/2014 14:48 End Date: 10/14/2014 21:16

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
IC 240-151699/1-A			14:48	X																			
IC 240-151699/1-A			14:54	X																			
IC 240-151699/2-A			14:56	X																			
IC 240-151699/3-A			14:58	X																			
IC 240-151699/4-A			15:02	X																			
IC 240-151699/5-A			15:04	X																			
IC 240-151699/6-A			15:06	X																			
ICV 240-151699/7-A	1		15:08	X																			
ICB 240-151699/8-A	1		15:10	X																			
CRA 240-151699/9-A	1		15:12	X																			
CCVL 240-151699/10-A	1		15:16	X																			
CCB 240-151699/12-A			15:18																				
ZZZZZZ			15:20																				
ZZZZZZ			15:22																				
ZZZZZZ			15:24																				
ZZZZZZ			15:26																				
ZZZZZZ			15:28																				
ZZZZZZ			15:30																				
ZZZZZZ			15:33																				
ZZZZZZ			15:35																				
ZZZZZZ			15:37																				
ZZZZZZ			15:39																				
CCV 240-151699/11-A			15:41																				
CCB 240-151699/12-A			15:43																				
ZZZZZZ			15:45																				
ZZZZZZ			15:48																				
ZZZZZZ			15:50																				
ZZZZZZ			15:52																				
ZZZZZZ			15:54																				
ZZZZZZ			15:56																				
ZZZZZZ			15:58																				
ZZZZZZ			16:00																				
ZZZZZZ			16:02																				
ZZZZZZ			16:05																				
CCV 240-151699/11-A			16:07																				
CCB 240-151699/12-A			16:10																				
ZZZZZZ			16:12																				
ZZZZZZ			16:14																				
ZZZZZZ			16:16																				
ZZZZZZ			16:18																				
ZZZZZZ			16:20																				
ZZZZZZ			16:22																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/14/2014 14:48 End Date: 10/14/2014 21:16

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			16:24																				
ZZZZZZ			16:26																				
ZZZZZZ			16:28																				
ZZZZZZ			16:31																				
CCV 240-151699/11-A			16:33																				
CCB 240-151699/12-A			16:35																				
ZZZZZZ			16:37																				
ZZZZZZ			16:39																				
ZZZZZZ			16:41																				
ZZZZZZ			16:43																				
ZZZZZZ			16:45																				
ZZZZZZ			16:47																				
ZZZZZZ			16:50																				
ZZZZZZ			16:52																				
ZZZZZZ			16:54																				
ZZZZZZ			16:56																				
CCV 240-151699/11-A			16:58																				
CCB 240-151699/12-A			17:00																				
ZZZZZZ			17:02																				
ZZZZZZ			17:04																				
ZZZZZZ			17:06																				
ZZZZZZ			17:08																				
ZZZZZZ			17:10																				
ZZZZZZ			17:12																				
ZZZZZZ			17:14																				
CCV 240-151699/11-A			17:18																				
CCB 240-151699/12-A			17:20																				
CCV 240-151699/11-A			17:23																				
CCB 240-151699/12-A			17:25																				
ZZZZZZ			17:27																				
ZZZZZZ			17:29																				
ZZZZZZ			17:31																				
ZZZZZZ			17:33																				
ZZZZZZ			17:35																				
ZZZZZZ			17:37																				
ZZZZZZ			17:40																				
ZZZZZZ			17:43																				
ZZZZZZ			17:45																				
ZZZZZZ			17:47																				
CCV 240-151699/11-A			17:49																				
CCB 240-151699/12-A			17:51																				
ZZZZZZ			17:53																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/14/2014 14:48 End Date: 10/14/2014 21:16

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			17:55																				
ZZZZZZ			17:57																				
ZZZZZZ			17:59																				
ZZZZZZ			18:01																				
CCV 240-151699/11-A			18:04																				
CCB 240-151699/12-A			18:06																				
ZZZZZZ			18:09																				
ZZZZZZ			18:11																				
ZZZZZZ			18:13																				
ZZZZZZ			18:15																				
ZZZZZZ			18:17																				
ZZZZZZ			18:20																				
ZZZZZZ			18:22																				
ZZZZZZ			18:24																				
ZZZZZZ			18:26																				
CRA 240-151699/9-A			18:28																				
ZZZZZZ			18:30																				
CCV 240-151699/11-A			18:32																				
CCB 240-151699/12-A			18:34																				
ZZZZZZ			18:36																				
ZZZZZZ			18:38																				
ZZZZZZ			18:40																				
ZZZZZZ			18:42																				
ZZZZZZ			18:44																				
ZZZZZZ			18:47																				
ZZZZZZ			18:49																				
ZZZZZZ			18:51																				
ZZZZZZ			18:54																				
ZZZZZZ			18:55																				
CCV 240-151699/11-A			18:58																				
CCB 240-151699/12-A			19:00																				
ZZZZZZ			19:01																				
ZZZZZZ			19:03																				
ZZZZZZ			19:06																				
ZZZZZZ			19:08																				
ZZZZZZ			19:10																				
ZZZZZZ			19:12																				
ZZZZZZ			19:14																				
ZZZZZZ			19:16																				
ZZZZZZ			19:18																				
ZZZZZZ			19:20																				
CCV 240-151699/11-A			19:22																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/14/2014 14:48 End Date: 10/14/2014 21:16

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
CCB 240-151699/12-A			19:24																				
ZZZZZZ			19:26																				
ZZZZZZ			19:28																				
ZZZZZZ			19:31																				
ZZZZZZ			19:33																				
ZZZZZZ			19:36																				
ZZZZZZ			19:38																				
ZZZZZZ			19:40																				
ZZZZZZ			19:42																				
ZZZZZZ			19:44																				
ZZZZZZ			19:46																				
CCV 240-151699/11-A			19:48																				
CCB 240-151699/12-A			19:51																				
ZZZZZZ			19:53																				
ZZZZZZ			19:54																				
ZZZZZZ			19:56																				
ZZZZZZ			19:58																				
ZZZZZZ			20:00																				
ZZZZZZ			20:03																				
ZZZZZZ			20:05																				
ZZZZZZ			20:07																				
ZZZZZZ			20:09																				
ZZZZZZ			20:11																				
CCV 240-151699/11-A	1		20:13	X																			
CCB 240-151699/12-A	1		20:15	X																			
ZZZZZZ			20:17																				
ZZZZZZ			20:19																				
ZZZZZZ			20:22																				
ZZZZZZ			20:24																				
ZZZZZZ			20:26																				
ZZZZZZ			20:28																				
ZZZZZZ			20:30																				
MB 240-151292/1-A	1	T	20:32	X																			
LCS 240-151292/2-A	1	T	20:34	X																			
240-42925-E-2-E MS	1	T	20:36	X																			
CCV 240-151699/11-A	1		20:38	X																			
CCB 240-151699/12-A	1		20:40	X																			
240-42925-E-2-F MSD	1	T	20:42	X																			
ZZZZZZ			20:44																				
ZZZZZZ			20:46																				
ZZZZZZ			20:48																				
ZZZZZZ			20:50																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 10/14/2014 14:48 End Date: 10/14/2014 21:16

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			20:52																				
240-42919-1	1	T	20:55	X																			
240-42919-3	1	T	20:57	X																			
240-42919-4	1	T	20:59	X																			
ZZZZZZ			21:02																				
CCV 240-151699/11-A	1		21:04	X																			
CCB 240-151699/12-A	1		21:06	X																			
ZZZZZZ			21:08																				
ZZZZZZ			21:10																				
ZZZZZZ			21:12																				
CCV 240-151699/11-A			21:13																				
CCB 240-151699/12-A			21:16																				

Prep Types

T = Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Batch Number: 151291 Batch Start Date: 10/13/14 08:56 Batch Analyst: Lecorchick, Willis A

Batch Method: 3005A Batch End Date: 10/13/14 16:56

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00042	MTICP1 00033	MTICP2A 00040	MTTMHCL 00047
MB 240-151291/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-151291/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-42925-E-2 MS		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-42925-E-2 MSD		3005A, 6010C	R	50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-42919-E-1	WSP-4-100914	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-42919-E-3	WSP-2-100914	3005A, 6010C	R	50 mL	50 mL				2.5 mL
240-42919-D-4	WSP-1-100914	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00041					
MB 240-151291/1		3005A, 6010C		1 mL					
LCS 240-151291/2		3005A, 6010C		1 mL					
240-42925-E-2 MS		3005A, 6010C	R	1 mL					
240-42925-E-2 MSD		3005A, 6010C	R	1 mL					
240-42919-E-1	WSP-4-100914	3005A, 6010C	R	1 mL					
240-42919-E-3	WSP-2-100914	3005A, 6010C	R	1 mL					
240-42919-D-4	WSP-1-100914	3005A, 6010C	R	1 mL					

Batch Notes	
Filter Paper Lot Number	9587322
Hot Block ID number	HB0
Pipette ID	383364
Digestion Tube/Cup Lot #	1404096

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Batch Number: 151292 Batch Start Date: 10/13/14 11:45 Batch Analyst: Lecorchick, Willis A

Batch Method: 7470A Batch End Date: 10/13/14 13:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00014	MTH2S04 00020	MTHGCALW 00743	MTKMN04W 00071
MB 240-151292/1		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
LCS 240-151292/2		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-42925-E-2 MS		7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-42925-E-2 MSD		7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-42919-E-1	WSP-4-100914	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-42919-E-3	WSP-2-100914	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL
240-42919-D-4	WSP-1-100914	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00041					
MB 240-151292/1		7470A, 7470A		1.25 mL					
LCS 240-151292/2		7470A, 7470A		1.25 mL					
240-42925-E-2 MS		7470A, 7470A	T	1.25 mL					
240-42925-E-2 MSD		7470A, 7470A	T	1.25 mL					
240-42919-E-1	WSP-4-100914	7470A, 7470A	T	1.25 mL					
240-42919-E-3	WSP-2-100914	7470A, 7470A	T	1.25 mL					
240-42919-D-4	WSP-1-100914	7470A, 7470A	T	1.25 mL					

Batch Notes	
Hot Block ID number	B1
Pipette ID	383363-383366
Digestion Tube/Cup Lot #	1404094

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-42919-1

SDG No.:

Batch Number: 151699 Batch Start Date: 10/14/14 08:50 Batch Analyst: Martin, Aaron

Batch Method: 7470A Batch End Date: 10/14/14 10:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTH2S04 00020	MTHGCALW 00744	MTHgStd 00011	MTK2S208RGNT 00054
ICV 240-151699/7		7470A, 7470A		50 mL	50 mL	2.5 mL		0.125 mL	4 mL
ICB 240-151699/8		7470A, 7470A		50 mL	50 mL	2.5 mL			4 mL
CRA 240-151699/9		7470A, 7470A		50 mL	50 mL	2.5 mL	0.1 mL		4 mL
CCVL 240-151699/10		7470A, 7470A		50 mL	50 mL	2.5 mL	2.5 mL		4 mL
CCV 240-151699/11		7470A, 7470A		50 mL	50 mL	2.5 mL	2.5 mL		4 mL
CCB 240-151699/12		7470A, 7470A		50 mL	50 mL	2.5 mL			4 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTKMN04W 00071	MTTMHNO3 00041				
ICV 240-151699/7		7470A, 7470A		7.5 mL	1.25 mL				
ICB 240-151699/8		7470A, 7470A		7.5 mL	1.25 mL				
CRA 240-151699/9		7470A, 7470A		7.5 mL	1.25 mL				
CCVL 240-151699/10		7470A, 7470A		7.5 mL	1.25 mL				
CCV 240-151699/11		7470A, 7470A		7.5 mL	1.25 mL				
CCB 240-151699/12		7470A, 7470A		7.5 mL	1.25 mL				

Batch Notes	
Hot Block ID number	B1
Pipette ID	383364-383366
Digestion Tube/Cup Lot #	1404094

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-42919 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

2.6

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Stu Cameron	Lab PM: John McFadden	Carrier Tracking No(s):	COC No: 180-19478-4921.2
Client Contact: Mr. Stuart Cameron	Phone: (703) 342-8389	E-Mail: John.McFadden@testamericainc.com		Page: Page [redacted] 1 of 1
Company: Tetra Tech, Inc.				Job #:

Address: 20251 Century Blvd Suite 200	Due Date Requested:
City: Germantown	TAT Requested (days): 5 day TAT
State, Zip: MD, 20874	PO #:
Phone:	WO #:
Email: Stuart.Cameron@TetraTech.com	Project #: 112IC04769-31
Project Name: MRC Block E MPE System O&M	SSOW#:
Site: Middle River Complex, MD	

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs - TCL	Metals (Ca, Cr, Cu, Pb, Hg, Ni, Ag, Zn)	VOCs - PP (TO, volatile portion)	SVOCs - PP (with TCL/screen) (TO, non-volatile)	Pesticides - PP* (TO, non-volatile)	PCBs - PP (TO, non volatile)	TPH (1664 as SGT-HEM)	pH, BOD, TSS (general chemistry)	COD, TKN, Total P (general chemistry)	Cyanides				Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D	N	N	N	N	S	N	S	R					
WSP-4-100914	10/9/14	1040	G	W			3	2													
WSP-3-100914	"	1045	G	W			3														
WSP-2-100914	↓	1050	G	W			3	2													
WSP-1-100914	↓	1055	G	W			3	2													High TCE concentrations anticipated
TB-100914	—	—	—	W			2														

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Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown ☐ Radiological	☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10-9-14 / 1400	Tetra Tech	[signature]	10/10/14 8:00am	TAL Canton
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 42919

Client Tetra Tech Site Name

Cooler unpacked by:

Cooler Received on 10/10/14 Opened on 10/10/14

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +2 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C	
IR GUN# 4	(CF -2 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C	☐ See Multiple Cooler Form
IR GUN# 5	(CF 0 °C)	Observed Cooler Temp. °C	Corrected Cooler Temp. °C	
IR GUN# 8	(CF 0 °C)	Observed Cooler Temp. 2.6 °C	Corrected Cooler Temp. 2.6 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Did all bottles arrive in good condition (Unbroken)? Yes No
7. Could all bottle labels be reconciled with the COC? Yes No
8. Were correct bottle(s) used for the test(s) indicated? Yes No
9. Sufficient quantity received to perform indicated analyses? Yes No
10. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC412469
11. Were VOAs on the COC? Yes No
12. Were air bubbles >6 mm in any VOA vials? Yes No NA
13. Was a trip blank present in the cooler(s)? Yes No

Contacted PM Date by via Verbal Voice Mail Other
Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) 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 the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
WSP-4-100914	240-42919-D-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-4-100914	240-42919-E-1	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-2-100914	240-42919-D-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-2-100914	240-42919-E-3	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-1-100914	240-42919-D-4	Plastic 250ml - with Nitric Acid	<2	_____	_____
WSP-1-100914	240-42919-E-4	Plastic 250ml - with Nitric Acid	<2	_____	_____

10/30/2014 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-43797-1

Job Description: Middle River Complex, MD

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
11/6/2014 3:40 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
11/06/2014

cc: Samantha Brenner
Ms. Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: Middle River Complex, MD

Report Number: 240-43797-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The sample was received on 10/31/2014 9:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample DSP-1-103014 (240-43797-1) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The samples were analyzed on 11/05/2014.

Methylene Chloride was detected in method blank MB 240-154891/5 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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH

Sample DSP-1-103014 (240-43797-1) was analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 10/31/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Instrument ID: A3UX12 Analysis Batch Number: 154891

Lab Sample ID: MB 240-154891/5 Client Sample ID:

Date Analyzed: 11/04/14 19:34 Lab File ID: U1241295.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methylene Chloride	3.38	Split Peak	laveyt	11/04/14 20:30

624

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-43797-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-43797-1	DSP-1-103014	Water	10/30/2014 1125	10/31/2014 0930

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-43797-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-43797-1	**DSP-1-103014**					
pH		7.28	HF	0.100	SU	4500 H+ B-2000

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-43797-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
pH	TAL CAN	SM 4500 H+ B-2000	

Lab References:

TAL CAN = TestAmerica Canton

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-43797-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
SM 4500 H+ B-2000	Nolle, Laura C	LCN

Client: Tetra Tech, Inc. Job Number: 240-43797-1

Client Sample ID: **DSP-1-103014**

Lab Sample ID: 240-43797-1 Date Sampled: 10/30/2014 1125
Client Matrix: Water Date Received: 10/31/2014 0930

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-154891	Instrument ID:	A3UX12
	N/A	Prep Batch:	N/A	Lab File ID:	U1241308.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/05/2014 0034			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.17	U	0.17	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2-Chloroethyl vinyl ether	1.2	U	1.2	2.0
Acrolein	1.4	U	1.4	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.24	U	0.24	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	2.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	2.0
Chloroform	0.21	U	0.21	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.15	U	0.15	1.0
Ethylbenzene	0.23	U	0.23	1.0
Methylene Chloride	0.28	U	0.28	2.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94		80 - 125
4-Bromofluorobenzene (Surr)	92		80 - 120

General Chemistry

Client Sample ID: **DSP-1-103014**

Lab Sample ID: 240-43797-1 Date Sampled: 10/30/2014 1125

Client Matrix: Water Date Received: 10/31/2014 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
pH	7.28	HF	SU	0.100	0.100	1.0	4500 H+ B-2000

Analysis Batch: 240-154319 Analysis Date: 10/31/2014 1401

Client: Tetra Tech, Inc.

Job Number: 240-43797-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec
240-43797-1	DSP-1-103014	94	92
MB 240-154891/5		95	93
LCS 240-154891/6		90	88
190-5675-B-15 MS		99	89

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	80-120

Client: Tetra Tech, Inc. Job Number: 240-43797-1

Method Blank - Batch: 240-154891 **Method: 624**
Preparation: N/A

Lab Sample ID:	MB 240-154891/5	Analysis Batch:	240-154891	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	U1241295.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/04/2014 1934	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.17	U	0.17	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2-Chloroethyl vinyl ether	1.2	U	1.2	2.0
Acrolein	1.4	U	1.4	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.24	U	0.24	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	2.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	2.0
Chloroform	0.21	U	0.21	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.15	U	0.15	1.0
Ethylbenzene	0.23	U	0.23	1.0
Methylene Chloride	0.331	J	0.28	2.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	80 - 125
4-Bromofluorobenzene (Surr)	93	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	88	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	89	80 - 120

Client: Tetra Tech, Inc. Job Number: 240-43797-1

Lab Control Sample - Batch: 240-154319

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-154319/18	Analysis Batch:	240-154319	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/31/2014 1147	Units:	SU	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.47	6.480	100	97 - 103	

Duplicate - Batch: 240-154319

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-43797-1	Analysis Batch:	240-154319	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/31/2014 1401	Units:	SU	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.28	7.270	0.1	20	

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-43797-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Client: Tetra Tech, Inc. Job Number: 240-43797-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-154891					
LCS 240-154891/6	Lab Control Sample	T	Water	624	
MB 240-154891/5	Method Blank	T	Water	624	
190-5675-B-15 MS	Matrix Spike	T	Water	624	
240-43797-1	DSP-1-103014	T	Water	624	

Report Basis
T = Total

General Chemistry

Analysis Batch:240-154319					
LCS 240-154319/18	Lab Control Sample	T	Water	4500 H+ B-2000	
240-43797-1	DSP-1-103014	T	Water	4500 H+ B-2000	
240-43797-1DU	Duplicate	T	Water	4500 H+ B-2000	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-43797-1

Laboratory Chronicle

Lab ID: 240-43797-1 **Client ID:** DSP-1-103014

Sample Date/Time: 10/30/2014 11:25 Received Date/Time: 10/31/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-43797-C-1		240-154891		11/05/2014 00:34	1	TAL CAN	TJL1
A:4500 H+ B-2000	240-43797-D-1		240-154319		10/31/2014 14:01	1	TAL CAN	LCN

Lab ID: 240-43797-1 DU **Client ID:** DSP-1-103014

Sample Date/Time: 10/30/2014 11:25 Received Date/Time: 10/31/2014 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-43797-D-1 DU		240-154319		10/31/2014 14:01	1	TAL CAN	LCN

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-154891/5		240-154891		11/04/2014 19:34	1	TAL CAN	TJL1

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-154891/6		240-154891		11/04/2014 18:48	1	TAL CAN	TJL1
A:4500 H+ B-2000	LCS 240-154319/18		240-154319		10/31/2014 11:47	1	TAL CAN	LCN

Lab ID: MS **Client ID:** N/A

Sample Date/Time: 10/29/2014 10:17 Received Date/Time: 10/31/2014 08:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	190-5675-B-15 MS		240-154891		11/05/2014 16:28	1	TAL CAN	TJL1

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_00017	04/02/14	10/02/13	MEOH, Lot 38701	50 mL	VMSTM520_00016	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.VMSTM520_00016	12/31/14	Ultra Scientific, Lot CH-3660			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00144	03/18/14	03/11/14	MEOH, Lot 0000049909	2 mL	vm50ss_stk_00059	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00059	06/06/14	12/12/13	MEOH, Lot 0000049909	200 mL	VM567650_00017	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00017	02/28/18	Restek, Lot A093505			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00176	11/10/14	11/03/14	MEOH, Lot na	2 mL	vm50ss_stk_00062	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00062	04/20/15	10/20/14	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19	Restek, Lot A0102817			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00040	03/24/14	03/17/14	MEOH, Lot na	3 mL	VMACROLSTD_00010	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00010	03/28/14	02/28/14	MEOH, Lot 0000049909	20 mL	VM567644_00027	1 mL	Acrolein	250 ug/mL
..VM567644_00027	05/31/14	Restek, Lot A0100485			(Purchased Reagent)		Acrolein	5000 ug/mL
VMAROLISTDW_00072	11/07/14	10/31/14	MEOH, Lot na	3 mL	VMACROLSTD_00018	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00018	11/30/14	10/30/14	MEOH, Lot 0000085233	20 mL	VM568720_00003	0.25 mL	Acrolein	250 ug/mL
..VM568720_00003	11/30/14	restek, Lot A0104886			(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00055	11/07/14	10/31/14	MEOH, Lot NA	2 mL	VMFASA_00012	2 mL	Acrolein	250 ug/mL
.VMFASA_00012	11/30/14	09/30/14	MEOH, Lot 134079	100 mL	VM568720S_00002	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00002	11/30/14	restek, Lot A0104657			(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00063	11/07/14	10/31/14	MEOH, Lot NA	2 mL	VMFASG_00022	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00022	11/27/14	10/27/14	MEOH, Lot 0000085233	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15	Restek, Lot A099261			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMFASPW_00060	11/05/14	10/29/14	MEOH, Lot NA	2 mL	VMRFASP_00013	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
.VMRFASP_00013	11/29/14	10/29/14	MEOH, Lot +182820000062345JF	100 mL	VM567641S_00006	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643S_00011	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
..VM567641S_00006	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643S_00011	02/29/16		Restek, Lot A093471		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
VMRGAS_00047	03/24/14	03/17/14	MEOH, Lot 0000049909	10 mL	vm567645_00029	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00029	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	2000 ug/mL
VMRGAS_00076	11/04/14	10/28/14	MEOH, Lot +161620000085233JB	10 mL	vm567645_00031	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00031	02/28/15	Restek, Lot A093341			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRPRIMW_00054	03/18/14	03/11/14	MEOH, Lot NA	1 mL	VMRPRIM_00007	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00007	05/31/14	12/17/13	MEOH, Lot 0000038701	50 mL	VM567641_00010	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00011	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00010	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00014	1 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567643_00016	0.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00013	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00010	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00011	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00010	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00014	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567643_00016	12/31/15		restek, Lot A092294		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00013	05/31/14		Restek, Lot A099480		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00091	11/07/14	10/31/14	MEOH, Lot NA	1 mL	VMRPRIM_00009	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00009	02/28/15	10/20/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCPH7_00042	04/30/15		Fisher Scientific, Lot 132908		(Purchased Reagent)		pH	7 SU
WCPHLCS_00008	07/31/16		Phenova, Lot 8906-15		(Purchased Reagent)		pH	6.47 SU

RESTEK

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Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567641 **Lot No.:** A093581

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1 **Purity** 97%	1,999.9 µg/mL	+/- 11.6279 +/- 44.2519 +/- 44.4323	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-dichloroethene **CAS #** 75-35-4 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0 **Purity** 99%	20,000.0 µg/mL	+/- 116.2756 +/- 442.5291 +/- 444.3332	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Allyl chloride (3-chloropropene) **CAS #** 107-05-1 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Methyl acetate **CAS #** 79-20-9 **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 +/- 221.2646 +/- 222.1666	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Carbon disulfide **CAS #** 75-15-0 **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Methylene chloride (dichloromethane) **CAS #** 75-09-2 **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-54-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-34-3			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 594-20-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-60-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
17	chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-82-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
23	1,1-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 563-58-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
24	carbon tetrachloride	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 56-23-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
25	n-Heptane (C7)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-82-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-01-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	bromodichloromethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-27-4			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 10061-02-6			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	dibromochloromethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 124-48-1			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-57-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 95-63-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-Cymene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 99-87-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-12-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

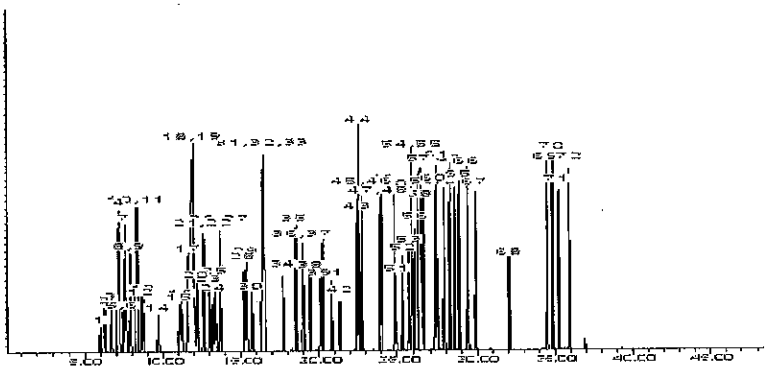
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

RESTEK

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Bellefonte, PA 16823-8812
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REC'D 7-6-13

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Reference Material Producer
Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567641 **Lot No.:** A093581

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 60-29-7		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113)	1,999.9 µg/mL	+/- 11.6279	µg/mL	Gravimetric
	CAS # 76-13-1		+/- 44.2519	µg/mL	Unstressed
	Purity 97%		+/- 44.4323	µg/mL	Stressed
3	1,1-dichloroethene	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-35-4		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
4	tert-Butanol (TBA)	20,000.0 µg/mL	+/- 116.2756	µg/mL	Gravimetric
	CAS # 75-65-0		+/- 442.5291	µg/mL	Unstressed
	Purity 99%		+/- 444.3332	µg/mL	Stressed
5	Iodomethane (methyl iodide)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 74-88-4		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed
6	Allyl chloride (3-chloropropene)	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 107-05-1		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
7	Methyl acetate	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 79-20-9		+/- 221.2646	µg/mL	Unstressed
	Purity 99%		+/- 222.1666	µg/mL	Stressed
8	Carbon disulfide	2,000.0 µg/mL	+/- 11.6281	µg/mL	Gravimetric
	CAS # 75-15-0		+/- 44.2527	µg/mL	Unstressed
	Purity 98%		+/- 44.4331	µg/mL	Stressed
9	Methylene chloride (dichloromethane)	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 75-09-2		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-54-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 75-34-3			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 594-20-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-60-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
17	chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-82-7			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
23	1,1-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 563-58-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
24	carbon tetrachloride	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 56-23-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
25	n-Heptane (C7)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-82-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-01-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	bromodichloromethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-27-4			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 10061-02-6			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	dibromochloromethane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 124-48-1			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-18-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
54	trans-1,4-dichloro-2-butene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 110-57-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 95-63-6			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-Cymene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 99-87-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 96-12-8			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

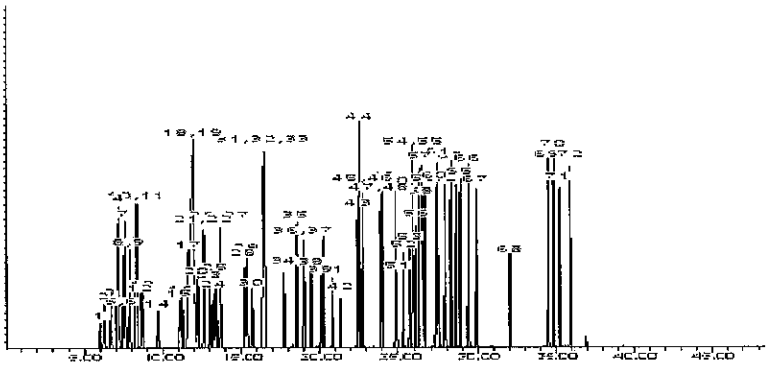
Carrier Gas:
hellium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2008 Registered Quality System Certificate #FM 80397

RESTEK

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Certificate #3222.01

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Certificate #3222.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567641.sec **Lot No.:** A093733

Description : 8260 List 1 / Std #1 MegaMix

8260 List 1 / Std #1 MegaMix 1,000-50,000 µg/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Diethyl ether (ethyl ether) **CAS #** 60-29-7.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	1,1,2-Trichlorotrifluoroethane (CFC-113) **CAS #** 76-13-1.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	1,1-Dichloroethene **CAS #** 75-35-4.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	tert-Butanol (TBA) **CAS #** 75-65-0.SEC **Purity** 99%	20,000.0 µg/mL	+/- 116.2756 +/- 442.5291 +/- 444.3332	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Iodomethane (methyl iodide) **CAS #** 74-88-4.SEC **Purity** 97%	2,000.0 µg/mL	+/- 11.6284 +/- 44.2540 +/- 44.4344	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Allyl chloride (3-chloropropene) **CAS #** 107-05-1.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Methyl acetate **CAS #** 79-20-9.SEC **Purity** 99%	10,000.0 µg/mL	+/- 58.1378 +/- 221.2646 +/- 222.1666	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Carbon disulfide **CAS #** 75-15-0.SEC **Purity** 98%	2,000.0 µg/mL	+/- 11.6281 +/- 44.2527 +/- 44.4331	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
9	Methylene chloride (dichloromethane) **CAS #** 75-09-2.SEC **Purity** 99%	2,000.0 µg/mL	+/- 11.6282 +/- 44.2531 +/- 44.4335	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

10	Acrylonitrile	20,000.0	µg/mL	+/-	116.2756	µg/mL	Gravimetric
	CAS # 107-13-1.SEC			+/-	442.5291	µg/mL	Unstressed
	Purity 99%			+/-	444.3332	µg/mL	Stressed
11	Methyl-tert-butyl ether (MTBE)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 1634-04-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
12	cis-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 156-59-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
13	n-Hexane (C6)	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 110-54-3.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
14	1,1-Dichloroethane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 75-34-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
15	2,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 594-20-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
16	trans-1,2-Dichloroethene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 156-60-5.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
17	Chloroform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 67-66-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
18	Isobutanol (2-Methyl-1-propanol)	50,000.0	µg/mL	+/-	290.6891	µg/mL	Gravimetric
	CAS # 78-83-1.SEC			+/-	1,106.3228	µg/mL	Unstressed
	Purity 99%			+/-	1,110.8331	µg/mL	Stressed
19	Bromochloromethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-97-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
20	Tetrahydrofuran	4,000.0	µg/mL	+/-	23.2563	µg/mL	Gravimetric
	CAS # 109-99-9.SEC			+/-	88.5061	µg/mL	Unstressed
	Purity 99%			+/-	88.8670	µg/mL	Stressed
21	1,1,1-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-55-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
22	Cyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 110-82-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
23	1,1-Dichloropropene	2,010.5	µg/mL	+/-	11.6890	µg/mL	Gravimetric
	CAS # 563-58-6.SEC			+/-	44.4847	µg/mL	Unstressed
	Purity 98%			+/-	44.6661	µg/mL	Stressed
24	Carbon tetrachloride	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 56-23-5.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed
25	n-Heptane (C7)	2,000.1	µg/mL	+/-	11.6288	µg/mL	Gravimetric
	CAS # 142-82-5.SEC			+/-	44.2553	µg/mL	Unstressed
	Purity 99%			+/-	44.4357	µg/mL	Stressed
26	Benzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 71-43-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
27	1,2-Dichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 107-06-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
28	Trichloroethene	2,000.1	µg/mL	+/-	11.6286	µg/mL	Gravimetric
	CAS # 79-01-6.SEC			+/-	44.2549	µg/mL	Unstressed
	Purity 98%			+/-	44.4353	µg/mL	Stressed

29	Methylcyclohexane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-87-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
30	1,2-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 78-87-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
31	1,4-Dioxane	40,000.0	µg/mL	+/-	232.5513	µg/mL	Gravimetric
	CAS # 123-91-1.SEC			+/-	885.0582	µg/mL	Unstressed
	Purity 99%			+/-	888.6665	µg/mL	Stressed
32	Dibromomethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 74-95-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
33	Bromodichloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 75-27-4.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
34	cis-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 10061-01-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
35	Toluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-88-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
36	Ethyl methacrylate	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 97-63-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
37	trans-1,3-Dichloropropene	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 10061-02-6.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
38	1,1,2-Trichloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-00-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
39	1,3-Dichloropropane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 142-28-9.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
40	Tetrachloroethene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 127-18-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
41	Dibromochloromethane	2,000.1	µg/mL	+/-	11.6290	µg/mL	Gravimetric
	CAS # 124-48-1.SEC			+/-	44.2562	µg/mL	Unstressed
	Purity 97%			+/-	44.4366	µg/mL	Stressed
42	1,2-Dibromoethane (EDB)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-93-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
43	Chlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-90-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
44	1,1,1,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 630-20-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
45	m-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 108-38-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
46	p-Xylene	1,000.0	µg/mL	+/-	5.8141	µg/mL	Gravimetric
	CAS # 106-42-3.SEC			+/-	22.1265	µg/mL	Unstressed
	Purity 99%			+/-	22.2167	µg/mL	Stressed
47	o-Xylene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-47-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

48	Ethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-41-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
49	Styrene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 100-42-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
50	Isopropylbenzene (cumene)	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-82-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
51	Bromoform	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 75-25-2.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
52	1,1,2,2-Tetrachloroethane	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 79-34-5.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
53	1,2,3-Trichloropropane	2,000.0	µg/mL	+/-	11.6281	µg/mL	Gravimetric
	CAS # 96-18-4.SEC			+/-	44.2527	µg/mL	Unstressed
	Purity 98%			+/-	44.4331	µg/mL	Stressed
54	trans-1,4-Dichloro-2-butene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 110-57-6.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
55	n-Propylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 103-65-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
56	Bromobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-86-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
57	1,3,5-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 108-67-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
58	2-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-49-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
59	4-Chlorotoluene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-43-4.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
60	tert-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 98-06-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
61	1,2,4-Trimethylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-63-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
62	sec-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 135-98-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
63	4-Isopropyltoluene (p-cymene)	2,000.1	µg/mL	+/-	11.6285	µg/mL	Gravimetric
	CAS # 99-87-6.SEC			+/-	44.2545	µg/mL	Unstressed
	Purity 96%			+/-	44.4349	µg/mL	Stressed
64	1,3-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 541-73-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
65	1,4-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 106-46-7.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
66	n-Butylbenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 104-51-8.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

67	1,2-Dichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 95-50-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
68	1,2-Dibromo-3-chloropropane	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 96-12-8.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
69	1,2,4-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 120-82-1.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
70	Hexachlorobutadiene	2,000.0	µg/mL	+/-	11.6284	µg/mL	Gravimetric
	CAS # 87-68-3.SEC			+/-	44.2540	µg/mL	Unstressed
	Purity 97%			+/-	44.4344	µg/mL	Stressed
71	Naphthalene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 91-20-3.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed
72	1,2,3-Trichlorobenzene	2,000.0	µg/mL	+/-	11.6282	µg/mL	Gravimetric
	CAS # 87-61-6.SEC			+/-	44.2531	µg/mL	Unstressed
	Purity 99%			+/-	44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:
60m x .25mm x 1.4um
Rtx-502.2 (cat.#10916)

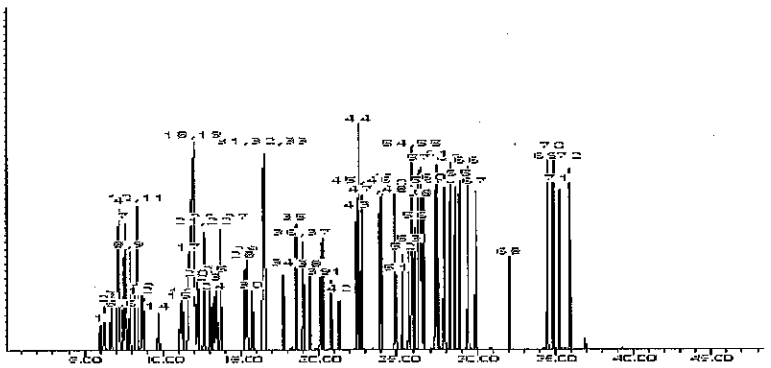
Carrier Gas:
helium-constant pressure 30 psi

Temp. Program:
40°C (hold 6 min.) to 240°C
@ 6°C/min. (hold 10 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
MSD



Jennifer L. Pollino - QC Analyst

Date Passed: 01-Mar-2013 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567642 **Lot No.:** A093365

Description : 8260 List 1 / Std #2 Ketones

8260 List 1 / Std #2 Ketones 10,000 ug/ml, P&T Methanol/Water (90:10), 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acetone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 67-64-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
2	2-Butanone (MEK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 78-93-3		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
3	4-Methyl-2-pentanone (MIBK)	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 108-10-1		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed
4	2-Hexanone	10,000.0 µg/mL	+/- 58.1378	µg/mL	Gravimetric
	CAS # 591-78-6		+/- 798.6896	µg/mL	Unstressed
	Purity 99%		+/- 799.0807	µg/mL	Stressed

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567643 **Lot No.:** A092294

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.7371	µg/mL Gravimetric
	CAS # 110-75-8 (Lot MKBK2735V)		+/- 44.2818	µg/mL Unstressed
	Purity 99%		+/- 44.4621	µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

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Catalog No. : 567643 **Lot No.:** A092294

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.7371	µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBK2735V)		+/- 44.2818	µg/mL	Unstressed
	Purity 99%		+/- 44.4621	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

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Catalog No. : 567643 **Lot No.:** A092294

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.7371	µg/mL	Gravimetric
	CAS # 110-75-8 (Lot MKBK2735V)		+/- 44.2818	µg/mL	Unstressed
	Purity 99%		+/- 44.4621	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:
Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

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Catalog No. : 567643 **Lot No.:** A093368

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6282	µg/mL	Gravimetric
	CAS # 110-75-8		+/- 44.2531	µg/mL	Unstressed
	Purity 99%		+/- 44.4335	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

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Catalog No. : 567643.sec **Lot No.:** A093471

Description : 8260 List 1 / Std #4 2-Chloroethylvinyl Ether

8260 List 1 / Std #4 2-Chloroethylvinyl Ether 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2016 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Chloroethyl vinyl ether	2,000.0 µg/mL	+/- 11.6550	µg/mL	Gravimetric
	CAS # 110-75-8.SEC		+/- 44.2601	µg/mL	Unstressed
	Purity 99%		+/- 44.4405	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Degradation of tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain tetrachloroethylene.

Rec: 1/21/14

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Catalog No. : 567644 **Lot No.:** A0100485

Description : 8260 List 1 / Std # 5 Acrolein

8260 List 1 / Std # 5 Acrolein 5000 ug/ml, Water, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Acrolein	5,031.0 µg/mL	+/- 29.5247	µg/mL	Gravimetric
	CAS # 107-02-8 (Lot 130830JLM)		+/- 161.3219	µg/mL	Unstressed
	Purity 99%		+/- 187.5154	µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567645 **Lot No.:** A093341

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 **Purity** 99%	2,000.0 µg/mL	+/- 13.8716 +/- 25.2661 +/- 28.2336	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 **Purity** 99%	1,999.8 µg/mL	+/- 13.9993 +/- 25.3348 +/- 28.2945	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 **Purity** 99%	2,000.1 µg/mL	+/- 13.9625 +/- 25.3168 +/- 28.2792	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 **Purity** 99%	2,000.0 µg/mL	+/- 13.3773 +/- 24.9981 +/- 27.9940	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 **Purity** 99%	2,000.1 µg/mL	+/- 14.2856 +/- 25.4963 +/- 28.4399	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 **Purity** 99%	2,000.0 µg/mL	+/- 13.2200 +/- 24.9143 +/- 27.9191	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 **Purity** 99%	2,000.0 µg/mL	+/- 13.5174 +/- 25.0735 +/- 28.0614	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 **Purity** 99%	1,999.9 µg/mL	+/- 13.1170 +/- 24.8590 +/- 27.8696	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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Catalog No. : 567645 **Lot No.:** A093341

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12) **CAS #** 75-71-8 **Purity** 99%	2,000.0 µg/mL	+/- 13.8716 +/- 25.2661 +/- 28.2336	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
2	Chloromethane (methyl chloride) **CAS #** 74-87-3 **Purity** 99%	1,999.8 µg/mL	+/- 13.9993 +/- 25.3348 +/- 28.2945	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
3	Vinyl chloride **CAS #** 75-01-4 **Purity** 99%	2,000.1 µg/mL	+/- 13.9625 +/- 25.3168 +/- 28.2792	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
4	1,3-Butadiene **CAS #** 106-99-0 **Purity** 99%	2,000.0 µg/mL	+/- 13.3773 +/- 24.9981 +/- 27.9940	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
5	Bromomethane (methyl bromide) **CAS #** 74-83-9 **Purity** 99%	2,000.1 µg/mL	+/- 14.2856 +/- 25.4963 +/- 28.4399	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
6	Chloroethane (ethyl chloride) **CAS #** 75-00-3 **Purity** 99%	2,000.0 µg/mL	+/- 13.2200 +/- 24.9143 +/- 27.9191	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
7	Dichlorofluoromethane (CFC-21) **CAS #** 75-43-4 **Purity** 99%	2,000.0 µg/mL	+/- 13.5174 +/- 25.0735 +/- 28.0614	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed
8	Trichlorofluoromethane (CFC-11) **CAS #** 75-69-4 **Purity** 99%	1,999.9 µg/mL	+/- 13.1170 +/- 24.8590 +/- 27.8696	µg/mL µg/mL µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

VM567645S_00016 Rec: 4/9/14

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567645.sec **Lot No.:** A099261

Description : 8260 List 1 / Std #3 Gases

8260 List 1 / Std #3 Gases 2,000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2015 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dichlorodifluoromethane (CFC-12)	2,002.2 µg/mL	+/- 16.7616	µg/mL	Gravimetric
	CAS # 75-71-8.SEC (Lot 18348)		+/- 21.2987	µg/mL	Unstressed
	Purity 99%		+/- 24.7536	µg/mL	Stressed
2	Chloromethane (methyl chloride)	2,000.6 µg/mL	+/- 15.8216	µg/mL	Gravimetric
	CAS # 74-87-3.SEC (Lot 18343)		+/- 21.2729	µg/mL	Unstressed
	Purity 99%		+/- 24.7262	µg/mL	Stressed
3	Vinyl chloride	2,001.9 µg/mL	+/- 14.6785	µg/mL	Gravimetric
	CAS # 75-01-4.SEC (Lot MKBK6872V)		+/- 21.2759	µg/mL	Unstressed
	Purity 99%		+/- 24.7329	µg/mL	Stressed
4	1,3-Butadiene	2,002.8 µg/mL	+/- 16.7307	µg/mL	Gravimetric
	CAS # 106-99-0.SEC (Lot 18349)		+/- 21.3051	µg/mL	Unstressed
	Purity 99%		+/- 24.7611	µg/mL	Stressed
5	Bromomethane (methyl bromide)	1,999.6 µg/mL	+/- 16.2313	µg/mL	Gravimetric
	CAS # 74-83-9.SEC (Lot Q119-46)		+/- 21.2671	µg/mL	Unstressed
	Purity 99%		+/- 24.7183	µg/mL	Stressed
6	Chloroethane (ethyl chloride)	2,001.0 µg/mL	+/- 14.6721	µg/mL	Gravimetric
	CAS # 75-00-3.SEC (Lot Q18B-13)		+/- 21.2666	µg/mL	Unstressed
	Purity 99%		+/- 24.7221	µg/mL	Stressed
7	Dichlorofluoromethane (CFC-21)	2,004.4 µg/mL	+/- 15.1665	µg/mL	Gravimetric
	CAS # 75-43-4.SEC (Lot SHBC0858V)		+/- 21.3071	µg/mL	Unstressed
	Purity 99%		+/- 24.7678	µg/mL	Stressed
8	Trichlorofluoromethane (CFC-11)	2,001.8 µg/mL	+/- 16.2157	µg/mL	Gravimetric
	CAS # 75-69-4.SEC (Lot Q139-99)		+/- 21.2894	µg/mL	Unstressed
	Purity 99%		+/- 24.7442	µg/mL	Stressed

Rec: 12/10/2013

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567646 **Lot No.:** A099480

Description : 8260 List 1 / Std #6 Vinyl Acetate

8260 List 1 / Std #6 Vinyl Acetate 4000 ug/ml, P&T Methanol, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2014 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)		Expanded Uncertainty (95% C.L.; K=2)			
1	Vinyl acetate		3,994.0	µg/mL	+/- 23.4390	µg/mL	Gravimetric
	CAS # 108-05-4	(Lot 131011JLM)			+/- 318.1798	µg/mL	Unstressed
	Purity 99%				+/- 318.3364	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

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FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A093505

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : February 2018 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Dibromofluoromethane	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 1868-53-7		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed
2	1,2-Dichloroethane-d4	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 17060-07-0		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed
3	Toluene-d8	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 2037-26-5		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed
4	1-Bromo-4-fluorobenzene (BFB)	2,500.0 µg/mL	+/- 14.5352	µg/mL	Gravimetric
	CAS # 460-00-4		+/- 30.1344	µg/mL	Unstressed
	Purity 99%		+/- 34.0022	µg/mL	Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

2-11

Rec: 6/6/14

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 567650 **Lot No.:** A0102817

Description : 8260 Surrogate Standard

8260 Surrogate Standard 2,500 ug/ml, P&T Methanol, 5 ml/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : April 30, 2019 **Storage:** 0°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Dibromofluoromethane **CAS #** 1868-53-7 (Lot 022012) **Purity** 99%	2,503.8 µg/mL	+/- 14.5573 µg/mL +/- 28.2339 µg/mL +/- 32.4891 µg/mL	Gravimetric Unstressed Stressed
2	1,2-Dichloroethane-d4 **CAS #** 17060-07-0 (Lot 13J-483) **Purity** 99%	2,502.4 µg/mL	+/- 14.5492 µg/mL +/- 28.2182 µg/mL +/- 32.4709 µg/mL	Gravimetric Unstressed Stressed
3	Toluene-d8 **CAS #** 2037-26-5 (Lot 13I-050) **Purity** 99%	2,500.0 µg/mL	+/- 14.5352 µg/mL +/- 28.1911 µg/mL +/- 32.4398 µg/mL	Gravimetric Unstressed Stressed
4	1-Bromo-4-fluorobenzene (BFB) **CAS #** 460-00-4 (Lot 01127COV) **Purity** 99%	2,503.6 µg/mL	+/- 14.5561 µg/mL +/- 28.2317 µg/mL +/- 32.4865 µg/mL	Gravimetric Unstressed Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

VM568720-00003 Rec! 10/21/14

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720 **Lot No.:** A0104886

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2014 **Storage:** 10°C or colder

Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acrolein	19,780.0 µg/mL	+/- 115.8162 µg/mL	Gravimetric
	CAS # 107-02-8 (Lot 140429JLM)		+/- 634.2090 µg/mL	Unstressed
	Purity 99%		+/- 737.1986 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

(10) VM568720S_00002 Rec: 7/18/14

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 568720.sec **Lot No.:** A0104657

Description : 8260 List 1/Std #5 Acrolein High

8260 List 1/Std #5 Acrolein High 19,750 µg/ml, Water, 1 ml/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2014 **Storage:** 10°C or colder

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Acrolein	19,596.0 µg/mL	+/- 115.0003 µg/mL	Gravimetric
	CAS # 107-02-8.SEC (Lot 2600100)		+/- 628.3572 µg/mL	Unstressed
	Purity 99%		+/- 730.3820 µg/mL	Stressed

Solvent: Water
CAS # 7732-18-5
Purity 99%

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6/11/12
TB

Internal Standard Mixture

Product Number: STM-520 **Page:** 1 of 1

Lot Number: CH-3660 **Lot Issue Date:** 15-Nov-2011 **Expiration Date:** 31-Dec-2014

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
chlorobenzene-d5	003114-55-4	RM01430-01	2503 ± 13 µg/mL
1,4-dichlorobenzene-d4	003855-82-1	RM01700-06	2500 ± 13 µg/mL
fluorobenzene	000462-06-6	RM03366-01	2513 ± 13 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

VM STM520_ 00017

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

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WP pH — Lot #8906-15

NELAC Analyte Code	Analyte	Certified Value S.U.	Acceptance Limits SU	Acceptance Limits %
1900	pH	6.47	6.27 - 6.67	96.9 - 103

Certified Values = "100% true concentration" of each analyte as determined from gravimetric and volumetric measurements made during standard manufacture.

Acceptance Limits = Generated based on the criteria established by The NELAC Institute (TNI) Fields of Proficiency Testing tables using regression equations and/or fixed percentage limits and other criteria distributed by accrediting agencies as applicable. Please note that regression based acceptance criteria are based on the Assigned Value and may have different criteria at different concentrations.

Solvent = ASTM Type I H_2O

Store at 20-25°C.

Expiration Date: 07/16

Catalog #: QC-PH-WP

Preparation Instructions: The pH standard is provided as a ready-to-use standard that can be analyzed directly from the bottle. Shake the bottle prior to opening. Transfer the aliquot needed for analysis and tightly re-cap the bottle.

NOTE: Although the pH standard is manufactured from buffers and is inherently stable, care should be taken to avoid excessive exposure to atmospheric air. Excessive exposure can lead to the adsorption of carbon dioxide which will elevate the pH.

Approved by: AFL

Reviewed by: CJ

Date: 07/13

Date: 07/13

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-43797-1
Project/Site: Middle River Complex, MD

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DCA #	BFB #
DSP-1-103014	240-43797-1	94	92
	MB 240-154891/5	95	93
	LCS 240-154891/6	90	88
	190-5675-B-15 MS	99	89

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Lab File ID: U1241295.D Lab Sample ID: MB 240-154891/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX12 Date Analyzed: 11/04/2014 19:34

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 240-154891/6	U1241293.D	11/04/2014 18:48
DSP-1-103014	240-43797-1	U1241308.D	11/05/2014 00:34
	190-5675-B-15 MS	U1241327.D	11/05/2014 16:28

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Lab File ID: BFB2547.D BFB Injection Date: 03/18/2014

Instrument ID: A3UX12 BFB Injection Time: 17:23

Analysis Batch No.: 123038

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.5	
75	30.0 - 60.0 % of mass 95	51.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	69.3	
175	5.0 - 9.0 % of mass 174	5.6	(8.0)1
176	95.0 - 101.0 % of mass 174	66.4	(95.8)1
177	5.0 - 9.0 % of mass 176	4.5	(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 240-123038/3	U1236334.D	03/18/2014	17:53
	STD8260 240-123038/4	U1236335.D	03/18/2014	18:18
	STD8260 240-123038/5	U1236336.D	03/18/2014	18:42
	STD8260 240-123038/6	U1236337.D	03/18/2014	19:07
	STD8260 240-123038/7	U1236338.D	03/18/2014	19:31
	STD8260 240-123038/8	U1236339.D	03/18/2014	19:56

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Lab File ID: BFB2777.D BFB Injection Date: 11/04/2014

Instrument ID: A3UX12 BFB Injection Time: 18:01

Analysis Batch No.: 154891

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.8	
75	30.0 - 60.0 % of mass 95	45.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.7	(0.8)1
174	50.0 - 120.00 % of mass 95	89.6	
175	5.0 - 9.0 % of mass 174	6.1	(6.8)1
176	95.0 - 101.0 % of mass 174	87.4	(97.5)1
177	5.0 - 9.0 % of mass 176	5.3	(6.1)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 240-154891/3	U1241292.D	11/04/2014	18:25
	LCS 240-154891/6	U1241293.D	11/04/2014	18:48
	CCV 240-154891/4	U1241294.D	11/04/2014	19:12
	MB 240-154891/5	U1241295.D	11/04/2014	19:34
DSP-1-103014	240-43797-1	U1241308.D	11/05/2014	00:34
	190-5675-B-15 MS	U1241327.D	11/05/2014	16:28

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Sample No.: STD8260 240-123038/5 Date Analyzed: 03/18/2014 18:42

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1236336.D Heated Purge: (Y/N) N

Calibration ID: 21223

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1086536	5.40	799126	8.22	433029	10.61
UPPER LIMIT		2173072	5.90	1598252	8.72	866058	11.11
LOWER LIMIT		543268	4.90	399563	7.72	216515	10.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
STD8260 240-154891/3 CCVIS		1134682	5.40	829305	8.22	431591	10.60

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 624

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Sample No.: STD8260 240-154891/3 Date Analyzed: 11/04/2014 18:25

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1241292.D Heated Purge: (Y/N) N

Calibration ID: 21226

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1134682	5.40	829305	8.22	431591	10.60
UPPER LIMIT		2269364	5.90	1658610	8.72	863182	11.10
LOWER LIMIT		567341	4.90	414653	7.72	215796	10.10
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-154891/6		1140081	5.40	860076	8.22	435996	10.61
CCV 240-154891/4		1097580	5.41	840337	8.22	432601	10.60
MB 240-154891/5		1063287	5.40	784603	8.22	398588	10.61
240-43797-1	DSP-1-103014	1091061	5.41	843172	8.22	423153	10.60
190-5675-B-15 MS		1086253	5.40	839346	8.22	416914	10.60

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-43797-1

SDG No.:

Client Sample ID: DSP-1-103014 | Lab Sample ID: 240-43797-1

Matrix: Water | Lab File ID: U1241308.D

Analysis Method: 624 | Date Collected: 10/30/2014 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 11/05/2014 00:34

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.: 154891 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.17	U	1.0	0.17
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
110-75-8	2-Chloroethyl vinyl ether	1.2	U	2.0	1.2
107-02-8	Acrolein	1.4	U	20	1.4
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.24	U	1.0	0.24
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	2.0	0.63
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.33	U	2.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
75-09-2	Methylene Chloride	0.28	U	2.0	0.28
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	0.50	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Client Sample ID: DSP-1-103014 Lab Sample ID: 240-43797-1

Matrix: Water Lab File ID: U1241308.D

Analysis Method: 624 Date Collected: 10/30/2014 11:25

Sample wt/vol: 5(mL) Date Analyzed: 11/05/2014 00:34

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.: 154891 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		80-125
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241308.D
Lims ID: 240-43797-C-1 Lab Sample ID: 240-43797-1
Client ID: DSP-1-103014
Sample Type: Client
Inject. Date: 05-Nov-2014 00:34:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0037024-019
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 05-Nov-2014 14:50:24 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: laveyt Date: 05-Nov-2014 14:50:24

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
*	1 Fluorobenzene	96	5.405	5.405	0.000	100	1091061	20.0	
*	2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	843172	20.0	
*	3 1,4-Dichlorobenzene-d4	152	10.599	10.599	0.000	93	423153	20.0	
$	5 1,2-Dichloroethane-d4 (Sur	65	5.109	5.120	-0.011	89	349904	18.9	
$	7 4-Bromofluorobenzene (Surr	95	9.392	9.404	-0.012	97	465311	18.3	
	11 Vinyl chloride	62		1.902				ND	
	13 Bromomethane	94		2.198				ND	
	14 Chloroethane	64		2.280				ND	
	16 Trichlorofluoromethane	101		2.505				ND	
	18 Acrolein	56		2.837				ND	
	22 1,1-Dichloroethene	61		2.955				ND	
	28 Methylene Chloride	49		3.357				ND	
	30 Acrylonitrile	53		3.535				ND	
	31 trans-1,2-Dichloroethene	61		3.570				ND	
	34 1,1-Dichloroethane	63		3.925				ND	
	47 Chloroform	83		4.683				ND	
	48 1,1,1-Trichloroethane	97		4.848				ND	
	51 Carbon tetrachloride	117		5.002				ND	
	53 Benzene	78		5.180				ND	
	54 1,2-Dichloroethane	62		5.180				ND	
	58 Trichloroethene	130		5.736				ND	
	61 1,2-Dichloropropane	63		5.937				ND	
	65 Dichlorobromomethane	83		6.173				ND	
	67 2-Chloroethyl vinyl ether	63		6.422				ND	
	68 cis-1,3-Dichloropropene	75		6.576				ND	
	70 Toluene	91	6.884	6.895	-0.011	43	9288	0.1154	
	71 trans-1,3-Dichloropropene	75		7.085				ND	
	74 1,1,2-Trichloroethane	97		7.262				ND	
	75 Tetrachloroethene	166		7.416				ND	
	79 Chlorodibromomethane	129		7.653				ND	
	82 Chlorobenzene	112		8.244				ND	
	84 Ethylbenzene	106		8.351				ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
88 Bromoform	173		9.073				ND	
91 1,1,2,2-Tetrachloroethane	83		9.534				ND	
103 1,3-Dichlorobenzene	146		10.540				ND	
105 1,4-Dichlorobenzene	146		10.635				ND	
109 1,2-Dichlorobenzene	146		11.025				ND	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

vm100is_stk_00020	Amount Added: 1.00	Units: uL
vm50ss_00176	Amount Added: 16.00	Units: uL

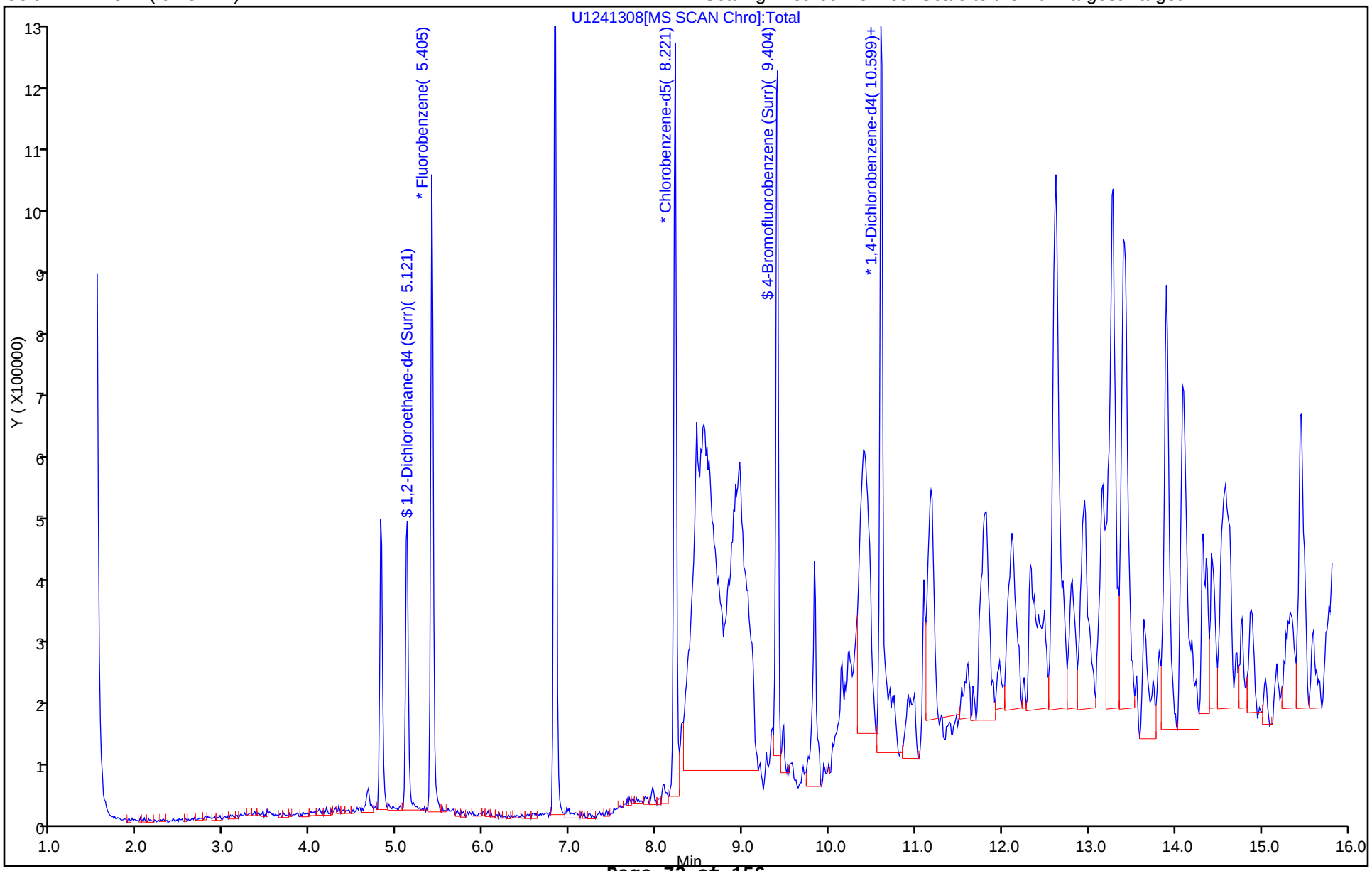
Report Date: 05-Nov-2014 14:50:24 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241308.D

Injection Date:	05-Nov-2014 00:34:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	240-43797-C-1	Lab Sample ID:	240-43797-1	Worklist Smp#:	19
Client ID:	DSP-1-103014				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260_12	Limit Group:	MSV 624 ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-43797-1 Analy Batch No.: 123038

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 17:53 Calibration End Date: 03/18/2014 19:56 Calibration ID: 21223

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-123038/8	U1236339.D
Level 2	STD8260 240-123038/7	U1236338.D
Level 3	STD8260 240-123038/6	U1236337.D
Level 4	STD8260 240-123038/5	U1236336.D
Level 5	STD8260 240-123038/4	U1236335.D
Level 6	STD8260 240-123038/3	U1236334.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	0.5344 0.5037	0.5482	0.4736	0.4481	0.4847	Ave		0.4988				7.6		35.0			
Chloromethane	0.5548 0.5203	0.4941	0.4787	0.5026	0.4615	Ave		0.5020				6.5		35.0			
Vinyl chloride	0.6018 0.5213	0.4945	0.4958	0.4867	0.4761	Ave		0.5127				9.0		35.0			
Bromomethane	0.2193 0.2899	0.2045	0.2459	0.2648	0.2544	Ave		0.2464				13.0		35.0			
Chloroethane	0.3033 0.3389	0.2806	0.2921	0.3217	0.3071	Ave		0.3073				6.8		35.0			
Dichlorofluoromethane	0.5609 0.7093	0.5861	0.6018	0.6515	0.6113	Ave		0.6201				8.5		35.0			
Trichlorofluoromethane	+++++ 0.5269	0.2817	0.4322	0.4446	0.4751	Ave		0.4321				21.0		35.0			
Ethyl ether	0.3032 0.2882	0.2907	0.2519	0.2786	0.2610	Ave		0.2789				6.9		35.0			
Acrolein	0.0515 0.0491	0.0375	0.0429	0.0480	0.0456	Ave		0.0458				11.0		35.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3320 0.3359	0.3222	0.3336	0.3136	0.3318	Ave		0.3282				2.6		35.0			
1,1-Dichloroethene	0.7910 0.6719	0.6581	0.6096	0.6244	0.6161	Ave		0.6619				10.0		35.0			
Acetone	+++++ 0.1001	0.2185	0.1045	0.0981	0.0901	Lin1	0.2349	0.0943							0.9970		0.9900
Iodomethane	0.4769 0.4952	0.4880	0.4499	0.4888	0.4663	Ave		0.4775				3.5		35.0			
Carbon disulfide	1.1951 1.3615	1.1225	1.2245	1.2583	1.2782	Ave		1.2400				6.5		35.0			
Methyl acetate	0.3031 0.2545	0.2745	0.2318	0.2393	0.2392	Ave		0.2571				11.0		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-43797-1 Analy Batch No.: 123038

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 17:53 Calibration End Date: 03/18/2014 19:56 Calibration ID: 21223

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								
Methylene Chloride	0.6765 0.5132	0.5933	0.4925	0.5139	0.4835	Ave		0.5455				14.0		35.0			
2-Methyl-2-propanol	0.0202 0.0257	0.0324	0.0268	0.0282	0.0278	Ave		0.0269				15.0		35.0			
Acrylonitrile	0.1341 0.1327	0.1320	0.1163	0.1261	0.1281	Ave		0.1282				5.1		35.0			
Methyl tert-butyl ether	1.0062 0.9932	0.9235	0.9091	0.9545	0.9132	Ave		0.9500				4.4		35.0			
trans-1,2-Dichloroethene	0.5271 0.5012	0.4980	0.4592	0.4640	0.4537	Ave		0.4839				6.0		35.0			
Hexane	+++++ 0.2954	0.4135	0.3254	0.2694	0.3140	Ave		0.3235				17.0		35.0			
1,1-Dichloroethane	0.6779 0.6169	0.4973	0.5423	0.5740	0.5766	Ave		0.5808				11.0		35.0			
Vinyl acetate	+++++ 0.4525	0.4327	0.3948	0.4055	0.4261	Ave		0.4223				5.4		35.0			
cis-1,2-Dichloroethene	0.4179 0.4827	0.4437	0.4224	0.4587	0.4536	Ave		0.4465				5.4		35.0			
2-Butanone (MEK)	0.2587 0.1551	0.1857	0.1436	0.1418	0.1443	Ave		0.1715				27.0		35.0			
2,2-Dichloropropane	0.2676 0.2152	0.1894	0.2086	0.2096	0.2130	Ave		0.2172				12.0		35.0			
Chlorobromomethane	0.2758 0.2868	0.2301	0.2520	0.2560	0.2586	Ave		0.2599				7.6		35.0			
Chloroform	0.6928 0.5875	0.5420	0.5287	0.5342	0.5248	Ave		0.5683				11.0		35.0			
1,1,1-Trichloroethane	0.2746 0.3435	0.3102	0.3127	0.3304	0.3187	Ave		0.3150				7.4		35.0			
Cyclohexane	0.4181 0.4385	0.4958	0.4312	0.4020	0.4233	Ave		0.4348				7.4		35.0			
1,1-Dichloropropene	0.4031 0.4327	0.3936	0.4016	0.3893	0.4041	Ave		0.4041				3.8		35.0			
Carbon tetrachloride	0.1984 0.2686	0.2307	0.2255	0.2395	0.2486	Ave		0.2352				10.0		35.0			
Isobutyl alcohol	0.0045 0.0054	0.0057	0.0046	0.0053	0.0056	Ave		0.0052				10.0		35.0			
Benzene	1.2944 1.4547	1.2963	1.2921	1.3280	1.3370	Ave		1.3337				4.7		35.0			
1,2-Dichloroethane	0.4248 0.4542	0.4749	0.4145	0.4376	0.4186	Ave		0.4374				5.3		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-43797-1 Analy Batch No.: 123038

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 17:53 Calibration End Date: 03/18/2014 19:56 Calibration ID: 21223

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								
Trichloroethene	0.3045 0.3247	0.3258	0.3052	0.3092	0.3076	Ave		0.3128				3.1		35.0			
Methylcyclohexane	0.4881 0.3641	0.4436	0.3691	0.3342	0.3743	Ave		0.3956				15.0		35.0			
1,2-Dichloropropane	0.3334 0.3447	0.3482	0.3093	0.3256	0.3132	Ave		0.3291				4.9		35.0			
Dibromomethane	0.1765 0.1949	0.1618	0.1583	0.1793	0.1739	Ave		0.1741				7.6		35.0			
Dichlorobromomethane	0.3572 0.4374	0.3124	0.3800	0.4088	0.4032	Ave		0.3832				11.0		35.0			
2-Chloroethyl vinyl ether	0.2301 0.2460	0.2276	0.2192	0.2322	0.2293	Ave		0.2307				3.8		35.0			
cis-1,3-Dichloropropene	0.4629 0.5280	0.4272	0.4389	0.4776	0.4865	Ave		0.4702				7.7		35.0			
4-Methyl-2-pentanone (MIBK)	0.3482 0.3206	0.3018	0.2959	0.2975	0.3034	Ave		0.3112				6.5		35.0			
Toluene	1.9139 2.0526	1.8706	1.7880	1.9419	1.8871	Ave		1.9090				4.6		35.0			
trans-1,3-Dichloropropene	0.4264 0.5793	0.3714	0.4536	0.5264	0.5367	Ave		0.4823				16.0		35.0			
Ethyl methacrylate	0.5082 0.5962	0.4790	0.4960	0.5638	0.5701	Ave		0.5356				8.8		35.0			
1,1,2-Trichloroethane	0.4068 0.4106	0.4633	0.3730	0.3988	0.3856	Ave		0.4064				7.7		35.0			
Tetrachloroethene	0.4136 0.3782	0.3907	0.3287	0.3598	0.3525	Ave		0.3706				8.1		35.0			
1,3-Dichloropropane	0.8469 0.7831	0.7392	0.7278	0.7778	0.7406	Ave		0.7692				5.7		35.0			
2-Hexanone	0.3156 0.3048	0.3117	0.2900	0.2927	0.2889	Ave		0.3006				3.9		35.0			
Chlorodibromomethane	0.2944 0.3839	0.2962	0.3175	0.3459	0.3528	Ave		0.3318				11.0		35.0			
Ethylene Dibromide	0.3244 0.4134	0.3551	0.3575	0.3902	0.3885	Ave		0.3715				8.6		35.0			
Chlorobenzene	1.2565 1.2815	1.1770	1.1292	1.2390	1.1758	Ave		1.2098				4.8		35.0			
1,1,1,2-Tetrachloroethane	0.2981 0.3700	0.3435	0.3033	0.3406	0.3344	Ave		0.3316				8.1		35.0			
Ethylbenzene	0.5132 0.6643	0.6084	0.5658	0.6503	0.6141	Ave		0.6027				9.3		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-43797-1 Analy Batch No.: 123038

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 17:53 Calibration End Date: 03/18/2014 19:56 Calibration ID: 21223

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	0.7032 0.8380	0.7202	0.7202	0.8049	0.7681	Ave		0.7591				7.1		35.0			
o-Xylene	0.6982 0.8523	0.6109	0.7218	0.8168	0.7765	Ave		0.7461				12.0		35.0			
Styrene	1.3247 1.5928	1.2622	1.2631	1.4995	1.4228	Ave		1.3942				9.7		35.0			
Bromoform	+++++ 0.2322	0.1706	0.1834	0.2065	0.2183	Ave		0.2022				12.0		35.0			
Isopropylbenzene	1.6638 1.9849	1.7715	1.6596	1.8529	1.7872	Ave		1.7867				6.9		35.0			
1,1,2,2-Tetrachloroethane	1.2337 1.1786	1.2869	1.1354	1.1574	1.1978	Ave		1.1983				4.6		35.0			
Bromobenzene	1.0408 0.9784	0.9261	0.9050	0.9222	0.9629	Ave		0.9559				5.2		35.0			
1,2,3-Trichloropropane	0.4346 0.3752	0.3379	0.3702	0.3656	0.4000	Ave		0.3806				8.7		35.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3290	0.2219	0.3251	0.2995	0.3428	Ave		0.3037				16.0		35.0			
N-Propylbenzene	0.9948 0.9153	0.9570	0.8646	0.8716	0.9092	Ave		0.9188				5.4		35.0			
2-Chlorotoluene	0.9043 0.8650	0.9134	0.7867	0.8180	0.8665	Ave		0.8590				5.7		35.0			
1,3,5-Trimethylbenzene	2.9225 2.9576	2.9760	2.8291	2.8643	2.9472	Ave		2.9161				2.0		35.0			
4-Chlorotoluene	0.9026 0.9528	0.9436	0.8795	0.9312	0.9220	Ave		0.9220				2.9		35.0			
tert-Butylbenzene	2.2905 2.3478	2.5249	2.1963	2.2569	2.4046	Ave		2.3368				5.0		35.0			
1,2,4-Trimethylbenzene	3.3154 3.2157	3.1289	2.9041	3.0536	3.1626	Ave		3.1300				4.5		35.0			
sec-Butylbenzene	3.6452 3.3155	3.5969	3.1772	3.2733	3.3970	Ave		3.4008				5.4		35.0			
1,3-Dichlorobenzene	1.7868 1.7316	1.9264	1.6377	1.6501	1.7030	Ave		1.7393				6.1		35.0			
4-Isopropyltoluene	3.0928 2.8938	3.2329	2.7355	2.7788	2.9119	Ave		2.9410				6.4		35.0			
1,4-Dichlorobenzene	2.5229 1.8330	1.9959	1.7496	1.7493	1.7858	Ave		1.9394				15.0		35.0			
n-Butylbenzene	3.0017 2.5834	2.9769	2.4071	2.5189	2.6067	Ave		2.6825				9.2		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-43797-1 Analy Batch No.: 123038

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 17:53 Calibration End Date: 03/18/2014 19:56 Calibration ID: 21223

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	1.9814 1.7212	1.7245	1.6875	1.6633	1.7263	Ave		1.7507				6.6		35.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1943	0.1038	0.1650	0.1665	0.1956	Ave		0.1650				23.0		35.0			
1,2,4-Trichlorobenzene	1.2300 0.8935	1.2187	0.9363	0.9162	0.9077	Ave		1.0171				16.0		35.0			
Hexachlorobutadiene	0.9001 0.3264	0.9868	0.4256	0.3916	0.3694	Lin1	0.4220	0.3425							0.9900		0.9900
Naphthalene	3.0738 3.1787	3.7993	3.0910	3.0797	3.2159	Ave		3.2397				8.7		35.0			
1,2,3-Trichlorobenzene	1.3764 0.8208	1.1441	0.8784	0.8429	0.8752	Ave		0.9896				23.0		35.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3571	0.3041	0.3481	0.3572	0.3335	Ave		0.3400				6.6		35.0			
Toluene-d8 (Surr)	+++++ 1.5610	1.4174	1.3869	1.4974	1.4676	Ave		1.4661				4.7		35.0			
4-Bromofluorobenzene (Surr)	+++++ 0.6491	0.6096	0.5569	0.6072	0.5858	Ave		0.6017				5.6		35.0			

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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-43797-1 Analy Batch No.: 123038

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 17:53 Calibration End Date: 03/18/2014 19:56 Calibration ID: 21223

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-123038/8	U1236339.D
Level 2	STD8260 240-123038/7	U1236338.D
Level 3	STD8260 240-123038/6	U1236337.D
Level 4	STD8260 240-123038/5	U1236336.D
Level 5	STD8260 240-123038/4	U1236335.D
Level 6	STD8260 240-123038/3	U1236334.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	13264 2157915	28148	245884	486854	1107117	0.500 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	13770 2229056	25374	248555	546079	1054277	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	14937 2233181	25394	257430	528779	1087536	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	5442 1241856	10501	127683	287676	581045	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	7528 1452051	14411	151639	349499	701418	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	13922 3038667	30094	312432	707880	1396288	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	+++++ 2257159	14463	224387	483081	1085290	+++++ 80.0	1.00	10.0	20.0	40.0
Ethyl ether	FB	Ave	7526 1234706	14930	130786	302678	596281	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	6386 1051932	9638	111426	260974	521269	2.50 400	5.00	50.0	100	200
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	8241 1438832	16544	173186	340785	758005	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethene	FB	Ave	19634 2878491	33792	316511	678423	1407330	0.500 80.0	1.00	10.0	20.0	40.0
Acetone	FB	Lin1	+++++ 857275	22435	108477	213207	411579	+++++ 160	2.00	20.0	40.0	80.0
Iodomethane	FB	Ave	11836 2121308	25058	233607	531060	1065215	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	29662 5832858	57641	635746	1367197	2919845	0.500 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	37615 5450919	70483	601862	1299940	2732275	2.50 400	5.00	50.0	100	200
Methylene Chloride	FB	Ave	16792 2198371	30464	255685	558356	1104455	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-43797-1 Analy Batch No.: 123038

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 17:53 Calibration End Date: 03/18/2014 19:56 Calibration ID: 21223

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methyl-2-propanol	FB	Ave	5014 1102514	16631	139347	306432	635722	5.00 800	10.0	100	200	400
Acrylonitrile	FB	Ave	33276 5686791	67798	603646	1370513	2925690	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	24975 4254940	47422	472020	1037056	2085910	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	13082 2147291	25573	238433	504166	1036442	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	+++++ 1265593	21233	168921	292697	717280	+++++ 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	16825 2642748	25539	281548	623628	1317189	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	+++++ 1860846	21331	196761	422941	934324	+++++ 76.8	0.960	9.60	19.2	38.4
cis-1,2-Dichloroethene	FB	Ave	10372 2067681	22782	219289	498363	1036169	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	12840 1328960	19068	149070	308078	659230	1.00 160	2.00	20.0	40.0	80.0
2,2-Dichloropropane	FB	Ave	6643 921971	9728	108310	227738	486475	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	6845 1228623	11816	130862	278169	590769	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	17195 2516694	27834	274512	580427	1198782	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	6815 1471481	15929	162343	358997	728053	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	10378 1878552	25461	223891	436759	966953	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	10005 1853839	20212	208501	423041	923160	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	4925 1150519	11844	117094	260226	567856	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	2774 579506	7336	59965	143511	320967	12.5 2000	25.0	250	500	1000
Benzene	FB	Ave	32128 6231715	66563	670840	1442934	3054090	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	10544 1945710	24386	215190	475486	956123	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	7557 1391067	16732	158470	335912	702688	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	12115 1559886	22779	191652	363150	855092	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-43797-1 Analy Batch No.: 123038

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 17:53 Calibration End Date: 03/18/2014 19:56 Calibration ID: 21223

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	8276 1476509	17879	160569	353761	715554	0.500 80.0	1.00	10.0	20.0	40.0
Dibromomethane	FB	Ave	4380 835139	8311	82206	194792	397343	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	8867 1873952	16041	197269	444229	921106	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	11422 2108043	23373	227600	504512	1047534	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	11490 2262036	21935	227868	518880	1111308	0.500 80.0	1.00	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	17287 2746832	30994	307245	646488	1386021	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	36388 6781712	71899	693465	1551842	3267498	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	8107 1914009	14277	175912	420623	929254	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl methacrylate	CBZ	Ave	9663 1969765	18412	192385	450549	987142	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	7735 1356727	17808	144654	318715	667619	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	7864 1249379	15019	127493	287533	610438	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	16102 2587203	28413	282292	621545	1282354	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	12000 2013839	23960	224951	467871	1000589	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	5597 1268428	11386	123137	276416	610946	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	6167 1366003	13649	138657	311828	672698	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	23890 4233955	45239	437966	990135	2035920	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	5667 1222302	13205	117650	272152	578928	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	9758 2194806	23385	219454	519709	1063388	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	13369 2768693	27683	279321	643253	1330010	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	13275 2816074	23481	279941	652715	1344460	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	25187 5262433	48516	489885	1198275	2463518	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-43797-1 Analy Batch No.: 123038

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 17:53 Calibration End Date: 03/18/2014 19:56 Calibration ID: 21223

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	+++++ 767043	6556	71118	165013	377942	+++++ 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	31633 6558059	68092	643687	1480734	3094585	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	11148 2098307	24226	218919	501191	1033091	0.500 80.0	1.00	10.0	20.0	40.0
Bromobenzene	DCB	Ave	9405 1741854	17435	174490	399340	830464	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichloropropane	DCB	Ave	3927 667983	6362	71373	158333	345029	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 585755	4178	62678	129712	295667	+++++ 80.0	1.00	10.0	20.0	40.0
N-Propylbenzene	DCB	Ave	8989 1629408	18016	166715	377434	784199	0.500 80.0	1.00	10.0	20.0	40.0
2-Chlorotoluene	DCB	Ave	8171 1539992	17195	151684	354222	747355	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	26408 5265288	56024	545505	1240328	2541916	0.500 80.0	1.00	10.0	20.0	40.0
4-Chlorotoluene	DCB	Ave	8156 1696287	17763	169579	403253	795258	0.500 80.0	1.00	10.0	20.0	40.0
tert-Butylbenzene	DCB	Ave	20697 4179727	47533	423476	977302	2073955	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	29958 5724865	58902	559954	1322296	2727712	0.500 80.0	1.00	10.0	20.0	40.0
sec-Butylbenzene	DCB	Ave	32938 5902553	67713	612614	1417423	2929887	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	16146 3082731	36266	315768	714541	1468835	0.500 80.0	1.00	10.0	20.0	40.0
4-Isopropyltoluene	DCB	Ave	27947 5151678	60861	527452	1203320	2511465	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dichlorobenzene	DCB	Ave	22797 3263180	37574	337352	757510	1540226	0.500 80.0	1.00	10.0	20.0	40.0
n-Butylbenzene	DCB	Ave	27124 4599166	56042	464127	1090753	2248243	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	17904 3064222	32465	325371	720257	1488927	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 345901	1955	31815	72087	168677	+++++ 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	11114 1590748	22942	180525	396727	782901	0.500 80.0	1.00	10.0	20.0	40.0
Hexachlorobutadiene	DCB	Lin1	8133 581117	18576	82070	169580	318606	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-43797-1 Analy Batch No.: 123038

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/18/2014 17:53 Calibration End Date: 03/18/2014 19:56 Calibration ID: 21223

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Naphthalene	DCB	Ave	27775 5658872	71523	595995	1333586	2773673	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCB	Ave	12437 1461190	21539	169371	365014	754829	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 1529969	15614	180734	388122	761834	+++++ 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 5157409	54480	537891	1196611	2541176	+++++ 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	+++++ 2144723	23430	215981	485259	1014249	+++++ 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236334.D
Lims ID: STD8260 L6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 18-Mar-2014 17:53:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0029119-003
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 19-Mar-2014 14:47:34 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: laveyt Date: 18-Mar-2014 18:23:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.0	97	1070998	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.220	0.001	85	825979	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.0	79	445068	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.813	4.824	-0.011	58	1170287	NC	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.120	5.120	0.0	81	1529969	84.0	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.0	92	5157409	85.2	
$ 7 4-Bromofluorobenzene (Surr)	95	9.404	9.404	0.0	85	2144723	86.3	
9 Dichlorodifluoromethane	85	1.653	1.653	0.0	98	2157915	80.8	
10 Chloromethane	50	1.795	1.795	0.0	99	2229056	82.9	
11 Vinyl chloride	62	1.902	1.902	0.0	98	2233181	81.3	
12 Butadiene	54	1.937	1.937	0.0	97	2079511	NC	
13 Bromomethane	94	2.198	2.209	-0.011	91	1241856	94.1	
14 Chloroethane	64	2.292	2.304	-0.012	97	1452051	88.2	
15 Dichlorofluoromethane	67	2.446	2.458	-0.012	95	3038667	91.5	
16 Trichlorofluoromethane	101	2.517	2.529	-0.012	98	2257159	97.6	
17 Ethyl ether	59	2.718	2.730	-0.012	91	1234706	82.7	
18 Acrolein	56	2.837	2.848	-0.011	95	1051932	429.1	
22 1,1-Dichloroethene	61	2.955	2.967	-0.012	97	2878491	81.2	
21 Acetone	43	2.967	2.967	0.0	100	857275	167.2	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.967	-0.012	83	1438832	81.9	
23 Iodomethane	142	3.109	3.120	-0.011	99	2121308	83.0	
24 Carbon disulfide	76	3.168	3.168	0.0	99	5832858	87.8	
26 Methyl acetate	43	3.239	3.239	0.0	98	5450919	396.0	
27 3-Chloro-1-propene	41	3.227	3.239	-0.012	81	869749	NC	
28 Methylene Chloride	49	3.381	3.381	0.0	87	2198371	75.3	
29 2-Methyl-2-propanol	59	3.416	3.416	0.0	97	1102514	766.3	
30 Acrylonitrile	53	3.535	3.535	0.0	99	5686791	828.2	
32 Methyl tert-butyl ether	73	3.558	3.570	-0.012	89	4254940	83.6	
31 trans-1,2-Dichloroethene	61	3.570	3.606	-0.036	98	2147291	82.9	
33 Hexane	57	3.795	3.795	0.0	91	1265593	73.0	
34 1,1-Dichloroethane	63	3.925	3.925	0.0	100	2642748	85.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
35 Vinyl acetate	43	3.949	3.949	0.0	97	1860846	82.3	
39 cis-1,2-Dichloroethene	61	4.410	4.410	0.0	89	2067681	86.5	
41 2,2-Dichloropropane	77	4.422	4.422	0.0	59	921971	79.3	
40 2-Butanone (MEK)	43	4.410	4.422	-0.012	97	1328960	144.7	
45 Chlorobromomethane	49	4.623	4.623	0.0	86	1228623	88.3	
46 Tetrahydrofuran	42	4.659	4.659	0.0	88	816260	NC	
47 Chloroform	83	4.682	4.682	0.0	72	2516694	82.7	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.0	90	1471481	87.2	
49 Cyclohexane	84	4.907	4.907	0.0	88	1878552	80.7	
50 1,1-Dichloropropene	75	4.990	4.990	0.0	96	1853839	85.7	
51 Carbon tetrachloride	117	5.002	5.002	0.0	82	1150519	91.3	
52 Isobutyl alcohol	41	5.049	5.049	0.0	87	579506	2086.5	
53 Benzene	78	5.168	5.179	-0.011	95	6231715	87.3	
54 1,2-Dichloroethane	62	5.179	5.179	0.0	95	1945710	83.1	
56 n-Heptane	100	5.381	5.381	0.0	89	283680	NC	
58 Trichloroethene	130	5.736	5.736	0.0	94	1391067	83.0	
60 Methylcyclohexane	83	5.913	5.913	0.0	89	1559886	73.6	
61 1,2-Dichloropropane	63	5.937	5.937	0.0	93	1476509	83.8	
64 Dibromomethane	174	6.043	6.043	0.0	90	835139	89.6	
63 1,4-Dioxane	88	6.043	6.055	-0.012	39	325424	NC	
65 Dichlorobromomethane	83	6.173	6.173	0.0	99	1873952	91.3	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.0	90	2108043	170.6	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.0	93	2262036	89.8	
69 4-Methyl-2-pentanone (MIBK)	43	6.706	6.706	0.0	96	2746832	164.8	
70 Toluene	91	6.895	6.895	0.0	97	6781712	86.0	
71 trans-1,3-Dichloropropene	75	7.085	7.084	0.001	94	1914009	96.1	
72 Ethyl methacrylate	69	7.156	7.155	0.001	88	1969765	89.1	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.0	92	1356727	80.8	
75 Tetrachloroethene	166	7.416	7.416	0.0	96	1249379	81.6	
76 1,3-Dichloropropane	76	7.428	7.428	0.0	91	2587203	81.4	
77 2-Hexanone	43	7.487	7.487	0.0	95	2013839	162.2	
79 Chlorodibromomethane	129	7.653	7.652	0.001	90	1268428	92.6	
80 Ethylene Dibromide	107	7.771	7.771	0.0	97	1366003	89.0	
82 Chlorobenzene	112	8.256	8.256	0.0	94	4233955	84.7	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.0	88	1222302	89.2	
84 Ethylbenzene	106	8.351	8.351	0.0	99	2194806	88.2	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.0	96	2768693	88.3	
86 o-Xylene	106	8.871	8.871	0.0	95	2816074	91.4	
87 Styrene	104	8.883	8.883	0.0	93	5262433	91.4	
88 Bromoform	173	9.073	9.084	-0.012	94	767043	91.9	
89 Isopropylbenzene	105	9.238	9.238	0.0	95	6558059	88.9	
91 1,1,2,2-Tetrachloroethane	83	9.546	9.534	0.012	99	2098307	78.7	
92 Bromobenzene	156	9.569	9.569	0.0	93	1741854	81.9	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.0	70	667983	78.9	
94 trans-1,4-Dichloro-2-butene	53	9.605	9.593	0.012	68	585755	86.7	
95 N-Propylbenzene	120	9.664	9.664	0.0	97	1629408	79.7	
96 2-Chlorotoluene	126	9.759	9.759	0.0	95	1539992	80.6	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.0	92	5265288	81.1	
98 4-Chlorotoluene	126	9.877	9.877	0.0	98	1696287	82.7	
99 tert-Butylbenzene	119	10.185	10.185	0.0	82	4179727	80.4	
101 1,2,4-Trimethylbenzene	105	10.244	10.232	0.012	96	5724865	82.2	
102 sec-Butylbenzene	105	10.421	10.421	0.0	94	5902553	78.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.0	97	3082731	79.6	
104 4-Isopropyltoluene	119	10.563	10.563	0.0	95	5151678	78.7	
105 1,4-Dichlorobenzene	146	10.634	10.634	0.0	92	3263180	75.6	
108 n-Butylbenzene	91	11.001	11.001	0.0	95	4599166	77.0	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.0	94	3064222	78.7	
110 1,2-Dibromo-3-Chloropropane	157	11.853	11.853	0.0	78	345901	94.2	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.0	93	1590748	70.3	
113 Hexachlorobutadiene	225	12.930	12.930	0.0	95	581117	75.0	
114 Naphthalene	128	13.013	13.013	0.0	97	5658872	78.5	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.0	95	1461190	66.3	
S 124 1,2-Dichloroethene, Total	96				0		169.4	
S 125 1,3-Dichloropropene, Total	75				0		185.9	
S 126 Xylenes, Total	106				0		179.7	
S 127 Trihalomethanes, Total	1				0		358.5	

Report Date: 19-Mar-2014 14:47:35 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236334.D

Injection Date: 18-Mar-2014 17:53:30 Instrument ID: A3UX12 Operator ID: 001904

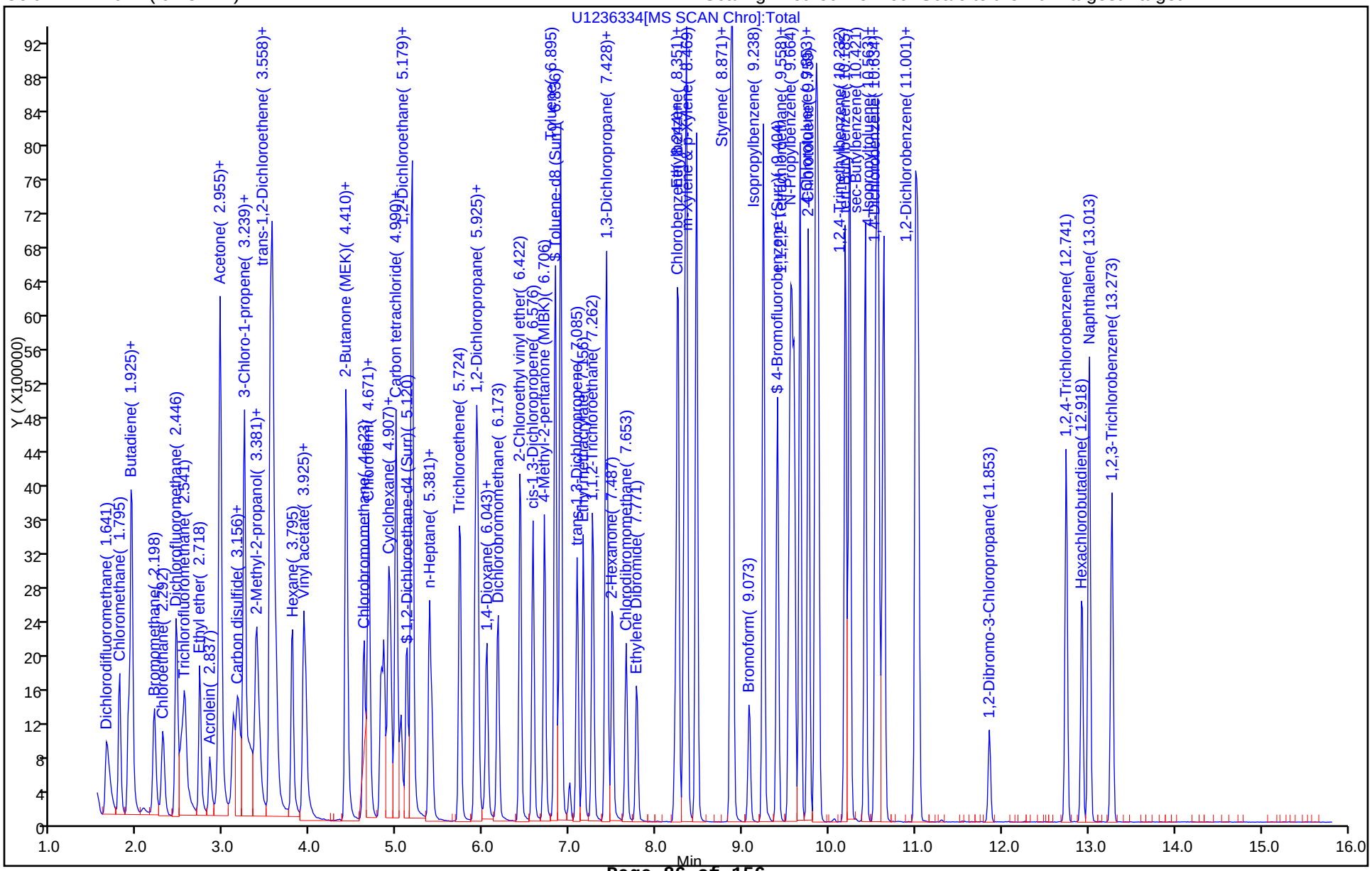
Lims ID: STD8260 L6 Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260_12 Limit Group: MSV 624 ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236335.D
Lims ID: STD8260 L5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 18-Mar-2014 18:18:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0029119-004
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 19-Mar-2014 14:47:35 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: laveyt Date: 18-Mar-2014 18:41:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.0	97	1142149	20.0	
* 2 Chlorobenzene-d5	117	8.220	8.220	0.0	87	865751	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.0	83	431248	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.812	4.824	-0.012	56	590323	NC	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.120	5.120	0.0	84	761834	39.2	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.0	92	2541176	40.0	
$ 7 4-Bromofluorobenzene (Surr)	95	9.404	9.404	0.0	84	1014249	38.9	
9 Dichlorodifluoromethane	85	1.653	1.653	0.0	88	1107117	38.9	
10 Chloromethane	50	1.795	1.795	0.0	100	1054277	36.8	
11 Vinyl chloride	62	1.902	1.902	0.0	98	1087536	37.1	
12 Butadiene	54	1.937	1.937	0.0	97	1020416	NC	
13 Bromomethane	94	2.197	2.209	-0.012	92	581045	41.3	
14 Chloroethane	64	2.304	2.304	0.0	95	701418	40.0	
15 Dichlorofluoromethane	67	2.458	2.458	0.0	98	1396288	39.4	
16 Trichlorofluoromethane	101	2.517	2.529	-0.012	97	1085290	44.0	
17 Ethyl ether	59	2.718	2.730	-0.012	91	596281	37.4	
18 Acrolein	56	2.836	2.848	-0.012	91	521269	199.4	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.967	-0.012	65	758005	40.4	
22 1,1-Dichloroethene	61	2.955	2.967	-0.012	99	1407330	37.2	
21 Acetone	43	2.967	2.967	-0.001	42	411579	73.9	
23 Iodomethane	142	3.120	3.120	0.0	98	1065215	39.1	
24 Carbon disulfide	76	3.168	3.168	0.0	99	2919845	41.2	
26 Methyl acetate	43	3.239	3.239	0.0	98	2732275	186.1	
27 3-Chloro-1-propene	41	3.227	3.239	-0.012	88	404998	NC	
28 Methylene Chloride	49	3.381	3.381	0.0	84	1104455	35.5	
29 2-Methyl-2-propanol	59	3.416	3.416	0.0	98	635722	414.4	
30 Acrylonitrile	53	3.534	3.535	-0.001	99	2925690	399.6	
32 Methyl tert-butyl ether	73	3.558	3.570	-0.012	95	2085910	38.5	
31 trans-1,2-Dichloroethene	61	3.570	3.606	-0.036	94	1036442	37.5	
33 Hexane	57	3.795	3.795	0.0	91	717280	38.8	
34 1,1-Dichloroethane	63	3.925	3.925	0.0	100	1317189	39.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
35 Vinyl acetate	43	3.949	3.949	0.0	97	934324	38.7	
39 cis-1,2-Dichloroethene	61	4.410	4.410	0.0	85	1036169	40.6	
41 2,2-Dichloropropane	77	4.422	4.422	0.0	53	486475	39.2	
40 2-Butanone (MEK)	43	4.422	4.422	0.0	71	659230	67.3	
45 Chlorobromomethane	49	4.623	4.623	0.0	97	590769	39.8	
46 Tetrahydrofuran	42	4.659	4.659	0.0	86	411858	NC	
47 Chloroform	83	4.682	4.682	0.0	72	1198782	36.9	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.0	89	728053	40.5	
49 Cyclohexane	84	4.919	4.907	0.012	89	966953	38.9	
50 1,1-Dichloropropene	75	4.990	4.990	0.0	95	923160	40.0	
51 Carbon tetrachloride	117	5.002	5.002	0.0	68	567856	42.3	
52 Isobutyl alcohol	41	5.049	5.049	0.0	91	320967	1083.6	
53 Benzene	78	5.179	5.179	0.0	95	3054090	40.1	
54 1,2-Dichloroethane	62	5.179	5.179	0.0	96	956123	38.3	
56 n-Heptane	100	5.380	5.381	-0.001	88	181513	NC	
58 Trichloroethene	130	5.735	5.736	-0.001	98	702688	39.3	
60 Methylcyclohexane	83	5.913	5.913	0.0	89	855092	37.9	
61 1,2-Dichloropropane	63	5.937	5.937	0.0	92	715554	38.1	
64 Dibromomethane	174	6.043	6.043	0.0	90	397343	40.0	
63 1,4-Dioxane	88	6.043	6.055	-0.012	44	177175	NC	
65 Dichlorobromomethane	83	6.173	6.173	0.0	100	921106	42.1	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.0	92	1047534	79.5	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.0	91	1111308	41.4	
69 4-Methyl-2-pentanone (MIBK)	43	6.706	6.706	0.0	96	1386021	78.0	
70 Toluene	91	6.895	6.895	0.0	98	3267498	39.5	
71 trans-1,3-Dichloropropene	75	7.084	7.084	0.0	90	929254	44.5	
72 Ethyl methacrylate	69	7.155	7.155	0.0	88	987142	42.6	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.0	93	667619	38.0	
75 Tetrachloroethene	166	7.416	7.416	0.0	92	610438	38.1	
76 1,3-Dichloropropane	76	7.428	7.428	0.0	91	1282354	38.5	
77 2-Hexanone	43	7.487	7.487	0.0	95	1000589	76.9	
79 Chlorodibromomethane	129	7.652	7.652	0.0	90	610946	42.5	
80 Ethylene Dibromide	107	7.771	7.771	0.0	99	672698	41.8	
82 Chlorobenzene	112	8.256	8.256	0.0	91	2035920	38.9	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.0	86	578928	40.3	
84 Ethylbenzene	106	8.350	8.351	-0.001	98	1063388	40.8	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.0	97	1330010	40.5	
86 o-Xylene	106	8.871	8.871	0.0	95	1344460	41.6	
87 Styrene	104	8.883	8.883	0.0	94	2463518	40.8	
88 Bromoform	173	9.072	9.084	-0.012	90	377942	43.2	
89 Isopropylbenzene	105	9.238	9.238	0.0	96	3094585	40.0	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.0	99	1033091	40.0	
92 Bromobenzene	156	9.569	9.569	0.0	83	830464	40.3	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.0	74	345029	42.0	
94 trans-1,4-Dichloro-2-butene	53	9.593	9.593	0.0	62	295667	45.2	
95 N-Propylbenzene	120	9.664	9.664	0.0	96	784199	39.6	
96 2-Chlorotoluene	126	9.759	9.759	0.0	95	747355	40.4	
97 1,3,5-Trimethylbenzene	105	9.841	9.842	-0.001	93	2541916	40.4	
98 4-Chlorotoluene	126	9.877	9.877	0.0	98	795258	40.0	
99 tert-Butylbenzene	119	10.185	10.185	0.0	91	2073955	41.2	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.0	77	2727712	40.4	
102 sec-Butylbenzene	105	10.421	10.421	0.0	94	2929887	40.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.0	98	1468835	39.2	
104 4-Isopropyltoluene	119	10.563	10.563	0.0	91	2511465	39.6	
105 1,4-Dichlorobenzene	146	10.634	10.634	0.0	93	1540226	36.8	
108 n-Butylbenzene	91	11.001	11.001	0.0	95	2248243	38.9	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.0	95	1488927	39.4	
110 1,2-Dibromo-3-Chloropropane	157	11.853	11.853	0.0	78	168677	47.4	
112 1,2,4-Trichlorobenzene	180	12.740	12.741	-0.001	93	782901	35.7	
113 Hexachlorobutadiene	225	12.930	12.930	0.0	96	318606	41.9	
114 Naphthalene	128	13.013	13.013	0.0	97	2773673	39.7	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.0	95	754829	35.4	
S 124 1,2-Dichloroethene, Total	96				0		78.1	
S 125 1,3-Dichloropropene, Total	75				0		85.9	
S 126 Xylenes, Total	106				0		82.1	
S 127 Trihalomethanes, Total	1				0		164.8	

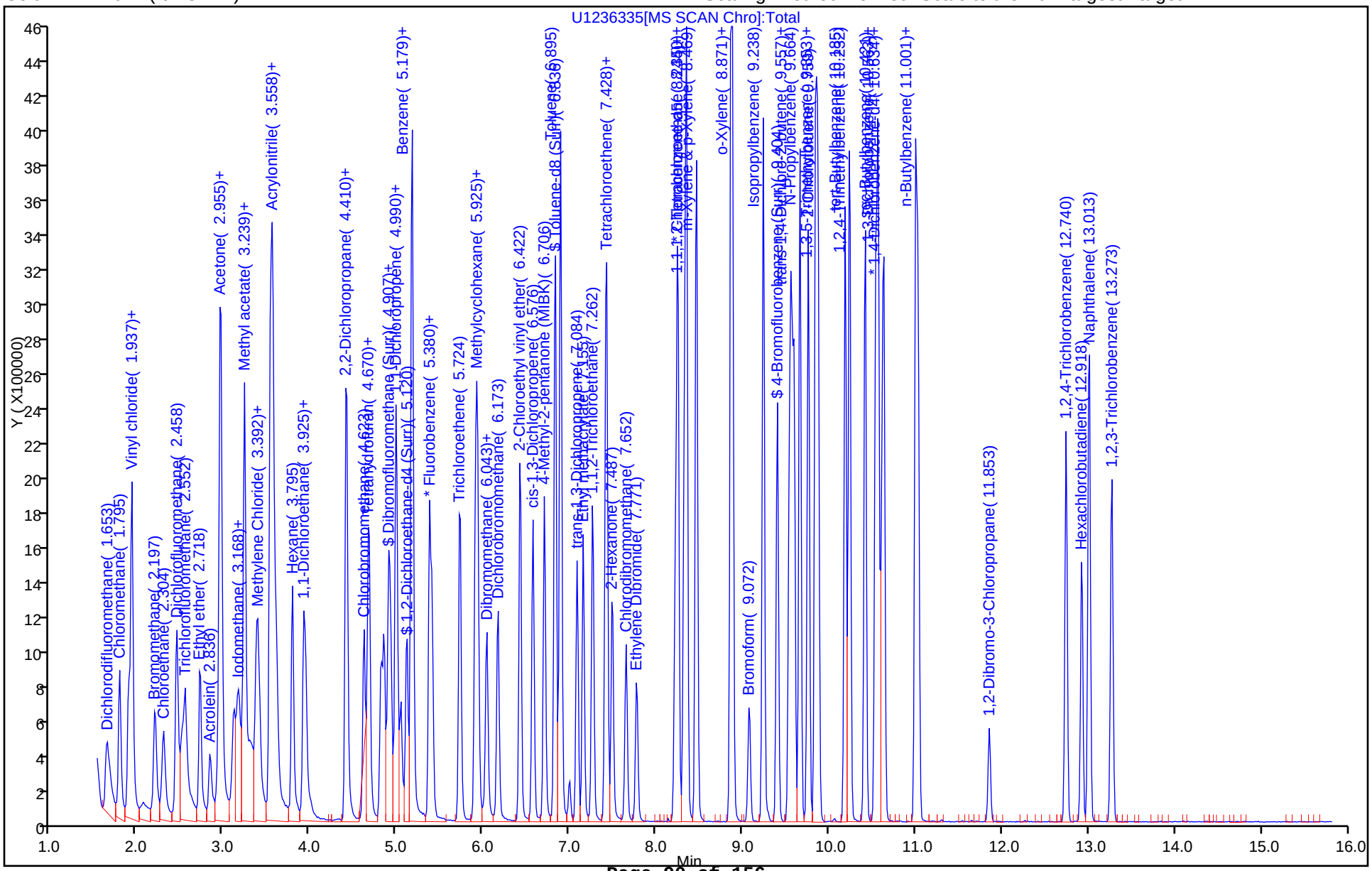
Report Date: 19-Mar-2014 14:47:36 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236335.D

Injection Date:	18-Mar-2014 18:18:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	STD8260 L5			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_12	Limit Group:	MSV 624 ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236336.D
Lims ID: STD8260 L4 ICIS
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 18-Mar-2014 18:42:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0029119-005
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 19-Mar-2014 14:47:37 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: laveyt Date: 18-Mar-2014 19:10:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.0	97	1086536	20.0	
* 2 Chlorobenzene-d5	117	8.220	8.220	0.0	88	799126	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.0	89	433029	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.824	4.824	0.0	57	287195	NC	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.120	5.120	0.0	91	388122	21.0	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.0	92	1196611	20.4	
$ 7 4-Bromofluorobenzene (Surr)	95	9.404	9.404	0.0	85	485259	20.2	
9 Dichlorodifluoromethane	85	1.653	1.653	0.0	96	486854	18.0	
10 Chloromethane	50	1.795	1.795	0.0	89	546079	20.0	
11 Vinyl chloride	62	1.902	1.902	0.0	83	528779	19.0	
12 Butadiene	54	1.937	1.937	0.0	87	474706	NC	
13 Bromomethane	94	2.209	2.209	0.0	91	287676	21.5	
14 Chloroethane	64	2.304	2.304	0.0	93	349499	20.9	
15 Dichlorofluoromethane	67	2.458	2.458	0.0	79	707880	21.0	
16 Trichlorofluoromethane	101	2.529	2.529	0.0	85	483081	20.6	
17 Ethyl ether	59	2.730	2.730	0.0	89	302678	20.0	
18 Acrolein	56	2.848	2.848	0.0	91	260974	104.9	
21 Acetone	43	2.967	2.967	0.0	35	213207	39.1	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.967	2.967	0.0	55	340785	19.1	
22 1,1-Dichloroethene	61	2.967	2.967	0.0	89	678423	18.9	
23 Iodomethane	142	3.120	3.120	0.0	98	531060	20.5	
24 Carbon disulfide	76	3.168	3.168	0.0	99	1367197	20.3	
26 Methyl acetate	43	3.239	3.239	0.0	98	1299940	93.1	
27 3-Chloro-1-propene	41	3.239	3.239	0.0	78	199312	NC	
28 Methylene Chloride	49	3.381	3.381	0.0	84	558356	18.8	
29 2-Methyl-2-propanol	59	3.416	3.416	0.0	98	306432	210.0	
30 Acrylonitrile	53	3.535	3.535	0.0	100	1370513	196.7	
32 Methyl tert-butyl ether	73	3.570	3.570	0.0	94	1037056	20.1	
31 trans-1,2-Dichloroethene	61	3.606	3.606	0.0	97	504166	19.2	
33 Hexane	57	3.795	3.795	0.0	91	292697	16.7	
34 1,1-Dichloroethane	63	3.925	3.925	0.0	100	623628	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
35 Vinyl acetate	43	3.949	3.949	0.0	97	422941	18.4	
39 cis-1,2-Dichloroethene	61	4.410	4.410	0.0	84	498363	20.5	
41 2,2-Dichloropropane	77	4.422	4.422	0.0	76	227738	19.3	
40 2-Butanone (MEK)	43	4.422	4.422	0.0	97	308078	33.1	
45 Chlorobromomethane	49	4.623	4.623	0.0	78	278169	19.7	
46 Tetrahydrofuran	42	4.659	4.659	0.0	88	202300	NC	
47 Chloroform	83	4.682	4.682	0.0	81	580427	18.8	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.0	88	358997	21.0	
49 Cyclohexane	84	4.907	4.907	0.0	87	436759	18.5	
50 1,1-Dichloropropene	75	4.990	4.990	0.0	95	423041	19.3	
51 Carbon tetrachloride	117	5.002	5.002	0.0	74	260226	20.4	
52 Isobutyl alcohol	41	5.049	5.049	0.0	86	143511	509.3	
53 Benzene	78	5.179	5.179	0.0	95	1442934	19.9	
54 1,2-Dichloroethane	62	5.179	5.179	0.0	87	475486	20.0	
56 n-Heptane	100	5.381	5.381	0.0	89	88899	NC	
58 Trichloroethene	130	5.736	5.736	0.0	98	335912	19.8	
60 Methylcyclohexane	83	5.913	5.913	0.0	88	363150	16.9	
61 1,2-Dichloropropane	63	5.937	5.937	0.0	92	353761	19.8	
64 Dibromomethane	174	6.043	6.043	0.0	92	194792	20.6	
63 1,4-Dioxane	88	6.055	6.055	0.0	39	75974	NC	
65 Dichlorobromomethane	83	6.173	6.173	0.0	99	444229	21.3	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.0	93	504512	40.2	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.0	91	518880	20.3	
69 4-Methyl-2-pentanone (MIBK)	43	6.706	6.706	0.0	96	646488	38.2	
70 Toluene	91	6.895	6.895	0.0	98	1551842	20.3	
71 trans-1,3-Dichloropropene	75	7.084	7.084	0.0	96	420623	21.8	
72 Ethyl methacrylate	69	7.155	7.155	0.0	88	450549	21.1	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.0	91	318715	19.6	
75 Tetrachloroethene	166	7.416	7.416	0.0	90	287533	19.4	
76 1,3-Dichloropropane	76	7.428	7.428	0.0	91	621545	20.2	
77 2-Hexanone	43	7.487	7.487	0.0	95	467871	39.0	
79 Chlorodibromomethane	129	7.652	7.652	0.0	87	276416	20.9	
80 Ethylene Dibromide	107	7.771	7.771	0.0	99	311828	21.0	
82 Chlorobenzene	112	8.256	8.256	0.0	94	990135	20.5	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.0	90	272152	20.5	
84 Ethylbenzene	106	8.351	8.351	0.0	98	519709	21.6	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.0	97	643253	21.2	
86 o-Xylene	106	8.871	8.871	0.0	91	652715	21.9	
87 Styrene	104	8.883	8.883	0.0	94	1198275	21.5	
88 Bromoform	173	9.084	9.084	0.0	95	165013	20.4	
89 Isopropylbenzene	105	9.238	9.238	0.0	95	1480734	20.7	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.0	99	501191	19.3	
92 Bromobenzene	156	9.569	9.569	0.0	95	399340	19.3	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.0	74	158333	19.2	
94 trans-1,4-Dichloro-2-butene	53	9.593	9.593	0.0	68	129712	19.7	
95 N-Propylbenzene	120	9.664	9.664	0.0	97	377434	19.0	
96 2-Chlorotoluene	126	9.759	9.759	0.0	93	354222	19.0	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.0	95	1240328	19.6	
98 4-Chlorotoluene	126	9.877	9.877	0.0	98	403253	20.2	
99 tert-Butylbenzene	119	10.185	10.185	0.0	88	977302	19.3	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.0	77	1322296	19.5	
102 sec-Butylbenzene	105	10.421	10.421	0.0	94	1417423	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.0	96	714541	19.0	
104 4-Isopropyltoluene	119	10.563	10.563	0.0	96	1203320	18.9	
105 1,4-Dichlorobenzene	146	10.634	10.634	0.0	93	757510	18.0	
108 n-Butylbenzene	91	11.001	11.001	0.0	95	1090753	18.8	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.0	95	720257	19.0	
110 1,2-Dibromo-3-Chloropropane	157	11.853	11.853	0.0	65	72087	20.2	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.0	93	396727	18.0	
113 Hexachlorobutadiene	225	12.930	12.930	0.0	95	169580	21.6	
114 Naphthalene	128	13.013	13.013	0.0	97	1333586	19.0	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.0	93	365014	17.0	
S 124 1,2-Dichloroethene, Total	96				0		39.7	
S 125 1,3-Dichloropropene, Total	75				0		42.1	
S 126 Xylenes, Total	106				0		43.1	
S 127 Trihalomethanes, Total	1				0		81.4	

Report Date: 19-Mar-2014 14:47:38 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236336.D

Injection Date: 18-Mar-2014 18:42:30 Instrument ID: A3UX12 Operator ID: 001904

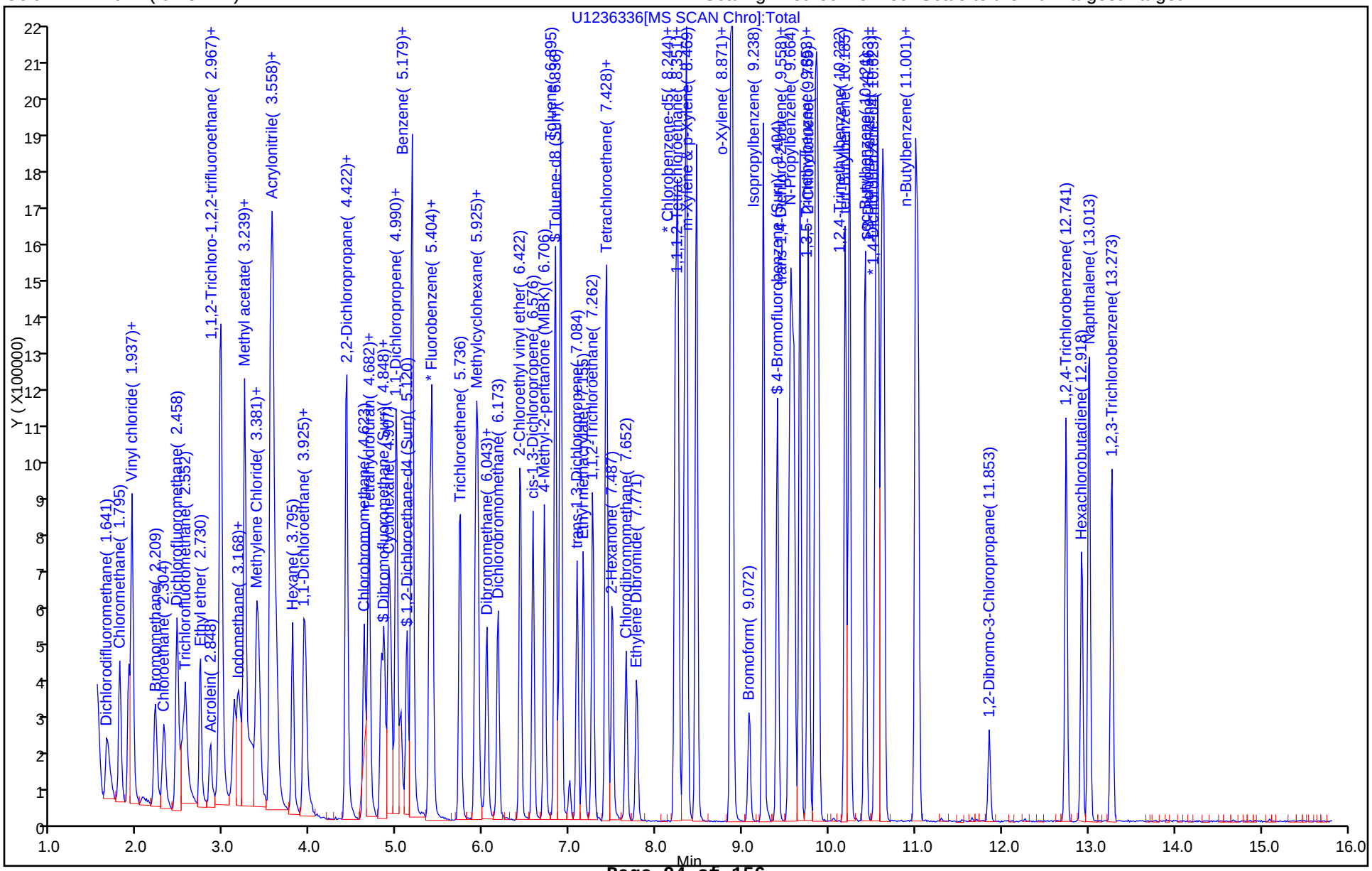
Lims ID: STD8260 L4 ICIS Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260_12 Limit Group: MSV 624 ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236337.D
Lims ID: STD8260 L3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 18-Mar-2014 19:07:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0029119-006
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 19-Mar-2014 14:47:39 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: laveyt Date: 18-Mar-2014 19:42:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.0	98	1038393	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.220	0.001	85	775696	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.0	90	385632	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.813	4.824	-0.011	54	124589	NC	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.120	5.120	0.0	90	180734	10.2	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.0	92	537891	9.46	
$ 7 4-Bromofluorobenzene (Surr)	95	9.392	9.404	-0.012	85	215981	9.25	
9 Dichlorodifluoromethane	85	1.641	1.653	-0.012	84	245884	9.50	
10 Chloromethane	50	1.795	1.795	0.0	99	248555	9.54	
11 Vinyl chloride	62	1.902	1.902	0.0	97	257430	9.67	
12 Butadiene	54	1.937	1.937	0.0	86	236028	NC	
13 Bromomethane	94	2.209	2.209	0.0	90	127683	9.98	
14 Chloroethane	64	2.316	2.304	0.012	93	151639	9.50	
15 Dichlorofluoromethane	67	2.458	2.458	0.0	78	312432	9.70	
16 Trichlorofluoromethane	101	2.517	2.529	-0.012	84	224387	10.0	
17 Ethyl ether	59	2.730	2.730	0.0	92	130786	9.03	
18 Acrolein	56	2.837	2.848	-0.011	88	111426	46.9	
22 1,1-Dichloroethene	61	2.967	2.967	0.0	98	316511	9.21	
21 Acetone	43	2.967	2.967	0.0	42	108477	19.7	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.967	2.967	0.0	65	173186	10.2	
23 Iodomethane	142	3.109	3.120	-0.011	99	233607	9.42	
24 Carbon disulfide	76	3.168	3.168	0.0	99	635746	9.87	
26 Methyl acetate	43	3.239	3.239	0.0	97	601862	45.1	
27 3-Chloro-1-propene	41	3.239	3.239	0.0	17	89997	NC	
28 Methylene Chloride	49	3.381	3.381	0.0	81	255685	9.03	
29 2-Methyl-2-propanol	59	3.416	3.416	0.0	96	139347	99.9	
30 Acrylonitrile	53	3.535	3.535	0.0	97	603646	90.7	
32 Methyl tert-butyl ether	73	3.570	3.570	0.0	93	472020	9.57	
31 trans-1,2-Dichloroethene	61	3.570	3.606	-0.036	87	238433	9.49	
33 Hexane	57	3.795	3.795	0.0	90	168921	10.1	
34 1,1-Dichloroethane	63	3.925	3.925	0.0	100	281548	9.34	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
35 Vinyl acetate	43	3.949	3.949	0.0	97	196761	8.97	
39 cis-1,2-Dichloroethene	61	4.422	4.410	0.012	84	219289	9.46	
41 2,2-Dichloropropane	77	4.422	4.422	0.0	55	108310	9.60	
40 2-Butanone (MEK)	43	4.422	4.422	0.0	70	149070	16.7	
45 Chlorobromomethane	49	4.623	4.623	0.0	91	130862	9.70	
46 Tetrahydrofuran	42	4.659	4.659	0.0	85	103585	NC	
47 Chloroform	83	4.682	4.682	0.0	71	274512	9.30	
48 1,1,1-Trichloroethane	97	4.860	4.848	0.012	89	162343	9.93	
49 Cyclohexane	84	4.907	4.907	0.0	88	223891	9.92	
50 1,1-Dichloropropene	75	4.990	4.990	0.0	94	208501	9.94	
51 Carbon tetrachloride	117	5.002	5.002	0.0	69	117094	9.59	
52 Isobutyl alcohol	41	5.049	5.049	0.0	89	59965	222.7	
53 Benzene	78	5.179	5.179	0.0	95	670840	9.69	
54 1,2-Dichloroethane	62	5.179	5.179	0.0	53	215190	9.48	
56 n-Heptane	100	5.381	5.381	0.0	83	46501	NC	
58 Trichloroethene	130	5.736	5.736	0.0	98	158470	9.76	
60 Methylcyclohexane	83	5.913	5.913	0.0	88	191652	9.33	
61 1,2-Dichloropropane	63	5.937	5.937	0.0	90	160569	9.40	
64 Dibromomethane	174	6.043	6.043	0.0	89	82206	9.09	
63 1,4-Dioxane	88	6.055	6.055	0.0	40	42874	NC	
65 Dichlorobromomethane	83	6.173	6.173	0.0	98	197269	9.92	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.0	89	227600	19.0	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.0	90	227868	9.33	
69 4-Methyl-2-pentanone (MIBK)	43	6.706	6.706	0.0	93	307245	19.0	
70 Toluene	91	6.895	6.895	0.0	98	693465	9.37	
71 trans-1,3-Dichloropropene	75	7.085	7.084	0.001	91	175912	9.40	
72 Ethyl methacrylate	69	7.156	7.155	0.001	87	192385	9.26	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.0	94	144654	9.18	
75 Tetrachloroethene	166	7.416	7.416	0.0	86	127493	8.87	
76 1,3-Dichloropropane	76	7.428	7.428	0.0	91	282292	9.46	
77 2-Hexanone	43	7.487	7.487	0.0	95	224951	19.3	
79 Chlorodibromomethane	129	7.653	7.652	0.001	85	123137	9.57	
80 Ethylene Dibromide	107	7.771	7.771	0.0	96	138657	9.62	
82 Chlorobenzene	112	8.244	8.256	-0.012	91	437966	9.33	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.0	80	117650	9.15	
84 Ethylbenzene	106	8.351	8.351	0.0	98	219454	9.39	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.0	97	279321	9.49	
86 o-Xylene	106	8.871	8.871	0.0	93	279941	9.67	
87 Styrene	104	8.883	8.883	0.0	92	489885	9.06	
88 Bromoform	173	9.072	9.084	-0.012	91	71118	9.07	
89 Isopropylbenzene	105	9.238	9.238	0.0	96	643687	9.29	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.0	99	218919	9.47	
92 Bromobenzene	156	9.569	9.569	0.0	94	174490	9.47	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.0	76	71373	9.73	
94 trans-1,4-Dichloro-2-butene	53	9.593	9.593	0.0	62	62678	10.7	
95 N-Propylbenzene	120	9.664	9.664	0.0	96	166715	9.41	
96 2-Chlorotoluene	126	9.759	9.759	0.0	94	151684	9.16	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.0	92	545505	9.70	
98 4-Chlorotoluene	126	9.877	9.877	0.0	98	169579	9.54	
99 tert-Butylbenzene	119	10.185	10.185	0.0	91	423476	9.40	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.0	77	559954	9.28	
102 sec-Butylbenzene	105	10.421	10.421	0.0	93	612614	9.34	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.0	97	315768	9.42	
104 4-Isopropyltoluene	119	10.563	10.563	0.0	91	527452	9.30	
105 1,4-Dichlorobenzene	146	10.634	10.634	0.0	92	337352	9.02	
108 n-Butylbenzene	91	11.001	11.001	0.0	94	464127	8.97	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.0	95	325371	9.64	
110 1,2-Dibromo-3-Chloropropane	157	11.853	11.853	0.0	64	31815	10.0	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.0	91	180525	9.21	
113 Hexachlorobutadiene	225	12.918	12.930	-0.012	93	82070	11.2	
114 Naphthalene	128	13.013	13.013	0.0	97	595995	9.54	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.0	93	169371	8.88	
S 124 1,2-Dichloroethene, Total	96				0		19.0	
S 125 1,3-Dichloropropene, Total	75				0		18.7	
S 126 Xylenes, Total	106				0		19.2	
S 127 Trihalomethanes, Total	1				0		37.9	

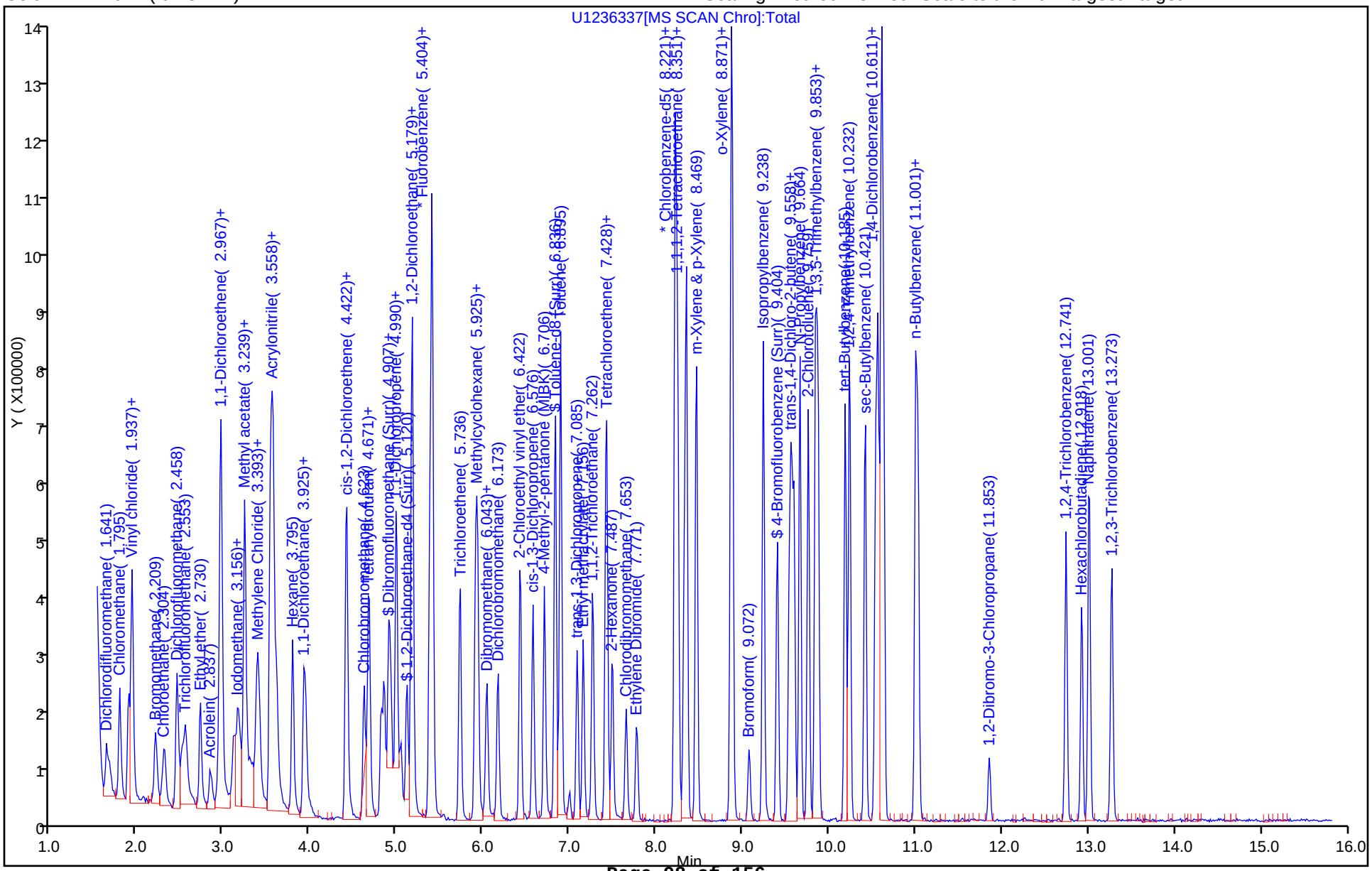
Report Date: 19-Mar-2014 14:47:39 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236337.D

Injection Date:	18-Mar-2014 19:07:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	STD8260 L3			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_12	Limit Group:	MSV 624 ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236338.D
Lims ID: STD8260 L2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 18-Mar-2014 19:31:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0029119-007
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 19-Mar-2014 14:47:40 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: laveyt Date: 18-Mar-2014 20:13:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.0	98	1027007	20.0	
* 2 Chlorobenzene-d5	117	8.220	8.220	0.0	85	768743	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.0	96	376507	20.0	
$ 4 Dibromofluoromethane (Surr)	113	4.813	4.824	-0.011	34	13462	NC	
$ 5 1,2-Dichloroethane-d4 (Surr)	65	5.120	5.120	0.0	85	15614	0.8943	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.0	73	54480	0.9668	
$ 7 4-Bromofluorobenzene (Surr)	95	9.404	9.404	0.0	68	23430	1.01	
9 Dichlorodifluoromethane	85	1.653	1.653	0.0	66	28148	1.10	
10 Chloromethane	50	1.795	1.795	0.0	81	25374	0.9843	
11 Vinyl chloride	62	1.902	1.902	0.0	34	25394	0.9645	
12 Butadiene	54	1.937	1.937	0.0	81	23340	NC	
13 Bromomethane	94	2.209	2.209	0.0	77	10501	0.8298	
14 Chloroethane	64	2.304	2.304	0.0	48	14411	0.9133	
15 Dichlorofluoromethane	67	2.458	2.458	0.0	64	30094	0.9450	
16 Trichlorofluoromethane	101	2.529	2.529	0.0	31	14463	0.6518	
17 Ethyl ether	59	2.730	2.730	0.0	80	14930	1.04	
18 Acrolein	56	2.848	2.848	0.0	49	9638	4.10	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.967	2.967	0.0	42	16544	0.9817	
22 1,1-Dichloroethene	61	2.967	2.967	0.0	92	33792	0.99	
21 Acetone	43	2.978	2.967	0.011	47	22435	2.14	
23 Iodomethane	142	3.120	3.120	0.0	82	25058	1.02	
24 Carbon disulfide	76	3.168	3.168	0.0	89	57641	0.9052	
26 Methyl acetate	43	3.239	3.239	0.0	99	70483	5.34	
27 3-Chloro-1-propene	41	3.239	3.239	0.0	6	11182	NC	
28 Methylene Chloride	49	3.393	3.381	0.012	77	30464	1.09	
29 2-Methyl-2-propanol	59	3.404	3.416	-0.012	58	16631	12.1	
30 Acrylonitrile	53	3.546	3.535	0.011	98	67798	10.3	
32 Methyl tert-butyl ether	73	3.558	3.570	-0.012	93	47422	0.9722	
31 trans-1,2-Dichloroethene	61	3.582	3.606	-0.024	39	25573	1.03	
33 Hexane	57	3.795	3.795	0.0	89	21233	1.28	
34 1,1-Dichloroethane	63	3.925	3.925	0.0	90	25539	0.8563	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
35 Vinyl acetate	43	3.949	3.949	0.0	81	21331	0.9837	
39 cis-1,2-Dichloroethene	61	4.410	4.410	0.0	71	22782	0.99	
41 2,2-Dichloropropane	77	4.422	4.422	0.0	42	9728	0.8720	
40 2-Butanone (MEK)	43	4.422	4.422	0.0	68	19068	2.17	
45 Chlorobromomethane	49	4.623	4.623	0.0	77	11816	0.8854	
46 Tetrahydrofuran	42	4.671	4.659	0.012	77	18714	NC	
47 Chloroform	83	4.682	4.682	0.0	65	27834	0.9537	
48 1,1,1-Trichloroethane	97	4.860	4.848	0.012	62	15929	0.9847	
49 Cyclohexane	84	4.907	4.907	0.0	71	25461	1.14	
50 1,1-Dichloropropene	75	4.990	4.990	0.0	74	20212	0.9741	
51 Carbon tetrachloride	117	5.002	5.002	0.0	57	11844	0.9806	
52 Isobutyl alcohol	41	5.049	5.049	0.0	55	7336	27.5	
53 Benzene	78	5.179	5.179	0.0	94	66563	0.9719	
54 1,2-Dichloroethane	62	5.179	5.179	0.0	39	24386	1.09	
56 n-Heptane	100	5.381	5.381	0.0	83	10113	NC	
58 Trichloroethene	130	5.736	5.736	0.0	85	16732	1.04	
60 Methylcyclohexane	83	5.913	5.913	0.0	69	22779	1.12	
61 1,2-Dichloropropane	63	5.937	5.937	0.0	74	17879	1.06	
64 Dibromomethane	174	6.043	6.043	0.0	70	8311	0.9294	
63 1,4-Dioxane	88	6.055	6.055	0.0	16	4174	NC	
65 Dichlorobromomethane	83	6.173	6.173	0.0	73	16041	0.8152	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.0	78	23373	1.97	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.0	65	21935	0.9085	
69 4-Methyl-2-pentanone (MIBK)	43	6.706	6.706	0.0	78	30994	1.94	
70 Toluene	91	6.895	6.895	0.0	95	71899	0.9799	
71 trans-1,3-Dichloropropene	75	7.084	7.084	0.0	57	14277	0.7702	
72 Ethyl methacrylate	69	7.155	7.155	0.0	72	18412	0.8944	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.0	48	17808	1.14	
75 Tetrachloroethene	166	7.428	7.416	0.012	60	15019	1.05	
76 1,3-Dichloropropane	76	7.428	7.428	0.0	66	28413	0.9610	
77 2-Hexanone	43	7.487	7.487	0.0	80	23960	2.07	
79 Chlorodibromomethane	129	7.652	7.652	0.0	43	11386	0.8928	
80 Ethylene Dibromide	107	7.771	7.771	0.0	57	13649	0.9558	
82 Chlorobenzene	112	8.256	8.256	0.0	82	45239	0.9728	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.0	59	13205	1.04	
84 Ethylbenzene	106	8.351	8.351	0.0	91	23385	1.01	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.0	87	27683	0.9488	
86 o-Xylene	106	8.871	8.871	0.0	86	23481	0.8188	
87 Styrene	104	8.883	8.883	0.0	84	48516	0.9053	
88 Bromoform	173	9.072	9.084	-0.012	43	6556	0.8437	
89 Isopropylbenzene	105	9.238	9.238	0.0	82	68092	0.99	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.0	71	24226	1.07	
92 Bromobenzene	156	9.569	9.569	0.0	83	17435	0.9689	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.0	58	6362	0.8879	
94 trans-1,4-Dichloro-2-butene	53	9.593	9.593	0.0	29	4178	0.7308	
95 N-Propylbenzene	120	9.664	9.664	0.0	85	18016	1.04	
96 2-Chlorotoluene	126	9.771	9.759	0.012	90	17195	1.06	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.0	76	56024	1.02	
98 4-Chlorotoluene	126	9.865	9.877	-0.012	86	17763	1.02	
99 tert-Butylbenzene	119	10.185	10.185	0.0	78	47533	1.08	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.0	63	58902	1.00	
102 sec-Butylbenzene	105	10.410	10.421	-0.011	80	67713	1.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.0	83	36266	1.11	
104 4-Isopropyltoluene	119	10.575	10.563	0.012	56	60861	1.10	
105 1,4-Dichlorobenzene	146	10.634	10.634	0.0	66	37574	1.03	
108 n-Butylbenzene	91	11.001	11.001	0.0	90	56042	1.11	
109 1,2-Dichlorobenzene	146	11.037	11.025	0.012	75	32465	0.9851	
110 1,2-Dibromo-3-Chloropropane	157	11.853	11.853	0.0	1	1955	0.6292	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.0	71	22942	1.20	
113 Hexachlorobutadiene	225	12.930	12.930	0.0	73	18576	1.65	
114 Naphthalene	128	13.013	13.013	0.0	83	71523	1.17	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.0	69	21539	1.16	
S 124 1,2-Dichloroethene, Total	96				0		2.02	
S 125 1,3-Dichloropropene, Total	75				0		1.68	
S 126 Xylenes, Total	106				0		1.77	
S 127 Trihalomethanes, Total	1				0		3.51	

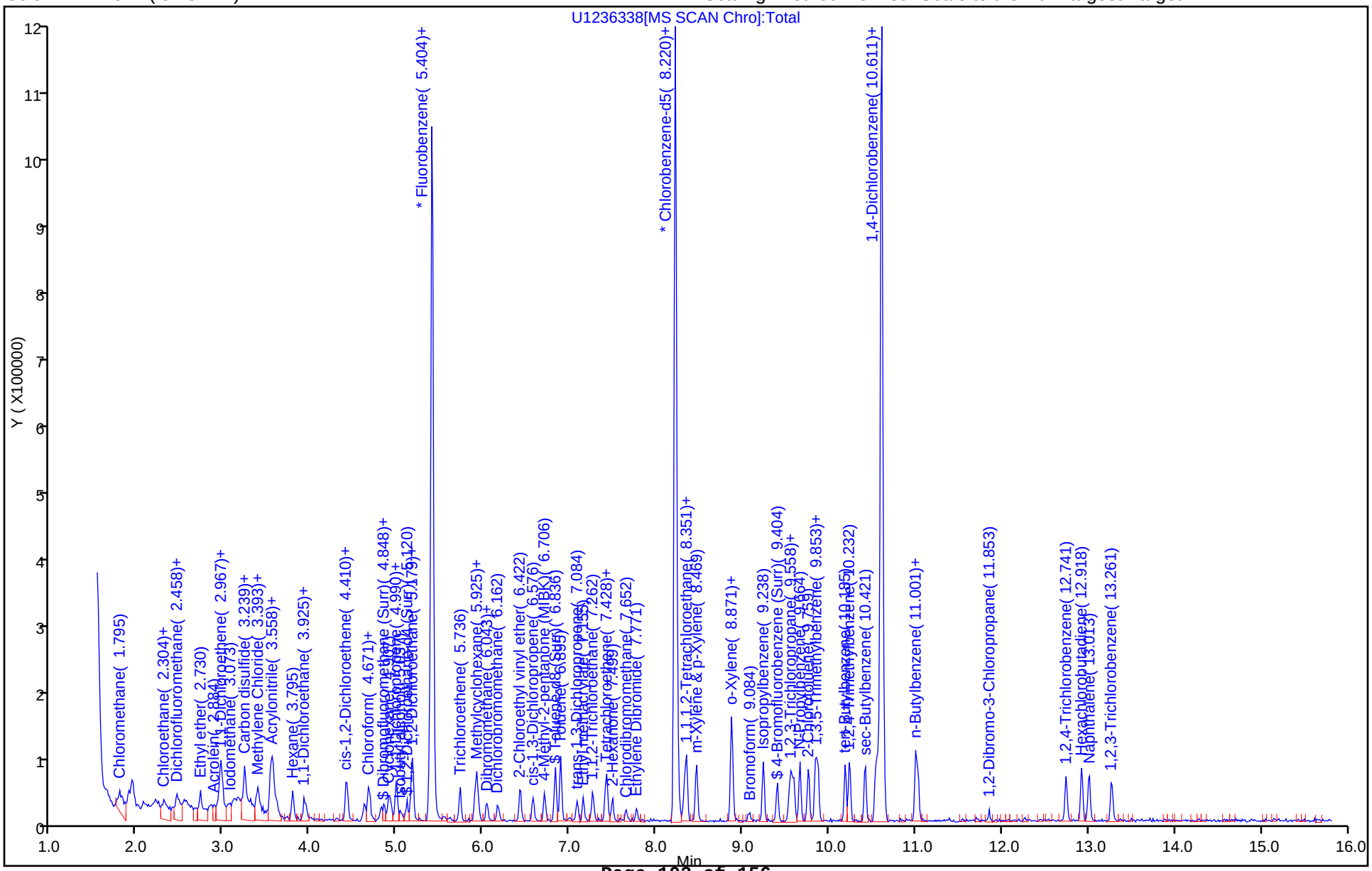
Report Date: 19-Mar-2014 14:47:41 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236338.D

Injection Date:	18-Mar-2014 19:31:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	STD8260 L2			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_12	Limit Group:	MSV 624 ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236339.D
Lims ID: STD8260 L1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 18-Mar-2014 19:56:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0029119-008
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 19-Mar-2014 14:47:42 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK030

First Level Reviewer: laveyt Date: 18-Mar-2014 20:20:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.0	98	992809	20.0	
* 2 Chlorobenzene-d5	117	8.220	8.220	0.0	87	760516	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.611	0.0	97	361443	20.0	
$ 4 Dibromofluoromethane (Surr)	113		4.824					
$ 5 1,2-Dichloroethane-d4 (Surr)	65		5.120					
$ 6 Toluene-d8 (Surr)	98		6.836					
$ 7 4-Bromofluorobenzene (Surr)	95		9.404					
9 Dichlorodifluoromethane	85	1.653	1.653	0.0	32	13264	0.5357	
10 Chloromethane	50	1.795	1.795	0.0	89	13770	0.5526	
11 Vinyl chloride	62	1.890	1.902	-0.012	29	14937	0.5869	
12 Butadiene	54	1.937	1.937	0.0	72	12135	NC	
13 Bromomethane	94	2.197	2.209	-0.012	30	5442	0.4448	
14 Chloroethane	64	2.304	2.304	0.0	42	7528	0.4935	
15 Dichlorofluoromethane	67	2.470	2.458	0.012	47	13922	0.4523	
16 Trichlorofluoromethane	101		2.529					
17 Ethyl ether	59	2.730	2.730	0.0	32	7526	0.5435	
18 Acrolein	56	2.860	2.848	0.012	20	6386	2.81	
21 Acetone	43		2.967					
20 1,1,2-Trichloro-1,2,2-trifluoroe	101	2.955	2.967	-0.012	22	8241	0.5059	
22 1,1-Dichloroethene	61	2.967	2.967	0.0	76	19634	0.5976	
23 Iodomethane	142	3.120	3.120	0.0	83	11836	0.4993	
24 Carbon disulfide	76	3.168	3.168	0.0	79	29662	0.4819	
26 Methyl acetate	43	3.239	3.239	0.0	94	37615	2.95	
27 3-Chloro-1-propene	41		3.239					
28 Methylene Chloride	49	3.393	3.381	0.012	75	16792	0.6202	
29 2-Methyl-2-propanol	59	3.416	3.416	0.0	57	5014	3.76	
30 Acrylonitrile	53	3.535	3.535	-0.001	95	33276	5.23	
32 Methyl tert-butyl ether	73	3.570	3.570	0.0	76	24975	0.5296	
31 trans-1,2-Dichloroethene	61	3.582	3.606	-0.024	37	13082	0.5446	
33 Hexane	57		3.795					
34 1,1-Dichloroethane	63	3.937	3.925	0.012	57	16825	0.5835	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
35 Vinyl acetate	43		3.949					
39 cis-1,2-Dichloroethene	61	4.422	4.410	0.012	48	10372	0.4680	
41 2,2-Dichloropropane	77	4.422	4.422	0.0	28	6643	0.6160	
40 2-Butanone (MEK)	43	4.422	4.422	0.0	81	12840	1.51	
45 Chlorobromomethane	49	4.623	4.623	0.0	49	6845	0.5306	
46 Tetrahydrofuran	42		4.659					
47 Chloroform	83	4.682	4.682	0.0	50	17195	0.6095	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.0	41	6815	0.4358	
49 Cyclohexane	84	4.907	4.907	0.0	53	10378	0.4808	
50 1,1-Dichloropropene	75	4.978	4.990	-0.012	49	10005	0.4988	
51 Carbon tetrachloride	117	5.002	5.002	0.0	45	4925	0.4218	
52 Isobutyl alcohol	41	5.049	5.049	0.0	27	2774	10.8	
53 Benzene	78	5.179	5.179	0.0	83	32128	0.4853	
54 1,2-Dichloroethane	62	5.179	5.179	0.0	23	10544	0.4856	
56 n-Heptane	100		5.381					
58 Trichloroethene	130	5.735	5.736	-0.001	60	7557	0.4866	
60 Methylcyclohexane	83	5.913	5.913	0.0	58	12115	0.6169	
61 1,2-Dichloropropane	63	5.925	5.937	-0.012	46	8276	0.5066	
64 Dibromomethane	174	6.043	6.043	0.0	70	4380	0.5067	
63 1,4-Dioxane	88		6.055					
65 Dichlorobromomethane	83	6.173	6.173	0.0	31	8867	0.4662	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.0	56	11422	1.00	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.0	55	11490	0.4923	
69 4-Methyl-2-pentanone (MIBK)	43	6.706	6.706	0.0	82	17287	1.12	
70 Toluene	91	6.895	6.895	0.0	81	36388	0.5013	
71 trans-1,3-Dichloropropene	75	7.096	7.084	0.012	60	8107	0.4421	
72 Ethyl methacrylate	69	7.155	7.155	0.0	43	9663	0.4745	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.0	50	7735	0.5006	
75 Tetrachloroethene	166	7.416	7.416	0.0	50	7864	0.5580	
76 1,3-Dichloropropane	76	7.428	7.428	0.0	68	16102	0.5505	
77 2-Hexanone	43	7.499	7.487	0.012	49	12000	1.05	
79 Chlorodibromomethane	129	7.652	7.652	0.0	25	5597	0.4436	
80 Ethylene Dibromide	107	7.771	7.771	0.0	42	6167	0.4365	
82 Chlorobenzene	112	8.256	8.256	0.0	69	23890	0.5193	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.0	36	5667	0.4494	
84 Ethylbenzene	106	8.351	8.351	-0.001	84	9758	0.4258	
85 m-Xylene & p-Xylene	106	8.457	8.469	-0.012	83	13369	0.4631	
86 o-Xylene	106	8.871	8.871	0.0	82	13275	0.4679	
87 Styrene	104	8.883	8.883	0.0	81	25187	0.4751	
88 Bromoform	173		9.084					
89 Isopropylbenzene	105	9.250	9.238	0.012	70	31633	0.4656	
91 1,1,2,2-Tetrachloroethane	83	9.546	9.534	0.012	40	11148	0.5148	
92 Bromobenzene	156	9.569	9.569	0.0	63	9405	0.5444	
93 1,2,3-Trichloropropane	110	9.581	9.593	-0.012	14	3927	0.5709	
94 trans-1,4-Dichloro-2-butene	53		9.593					
95 N-Propylbenzene	120	9.664	9.664	0.0	73	8989	0.5414	
96 2-Chlorotoluene	126	9.759	9.759	0.0	75	8171	0.5264	
97 1,3,5-Trimethylbenzene	105	9.841	9.842	-0.001	54	26408	0.5011	
98 4-Chlorotoluene	126	9.877	9.877	0.0	60	8156	0.4895	
99 tert-Butylbenzene	119	10.185	10.185	0.0	41	20697	0.4901	
101 1,2,4-Trimethylbenzene	105	10.244	10.232	0.012	52	29958	0.5296	
102 sec-Butylbenzene	105	10.421	10.421	0.0	49	32938	0.5359	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.0	60	16146	0.5137	
104 4-Isopropyltoluene	119	10.575	10.563	0.012	34	27947	0.5258	
105 1,4-Dichlorobenzene	146	10.634	10.634	0.0	40	22797	0.6504	
108 n-Butylbenzene	91	11.001	11.001	0.0	71	27124	0.5595	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.0	69	17904	0.5659	
110 1,2-Dibromo-3-Chloropropane	157		11.853					
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.0	34	11114	0.6047	
113 Hexachlorobutadiene	225	12.930	12.930	0.0	43	8133	0.0819	
114 Naphthalene	128	13.013	13.013	0.0	72	27775	0.4744	
115 1,2,3-Trichlorobenzene	180	13.285	13.273	0.012	47	12437	0.6954	
S 124 1,2-Dichloroethene, Total	96				0		1.01	
S 125 1,3-Dichloropropene, Total	75				0		0.9343	
S 126 Xylenes, Total	106				0		0.9311	
S 127 Trihalomethanes, Total	1				0		1.52	

Report Date: 19-Mar-2014 14:47:42 Chrom Revision: 2.2 12-Mar-2014 11:19:24

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236339.D

Injection Date: 18-Mar-2014 19:56:30 Instrument ID: A3UX12 Operator ID: 001904

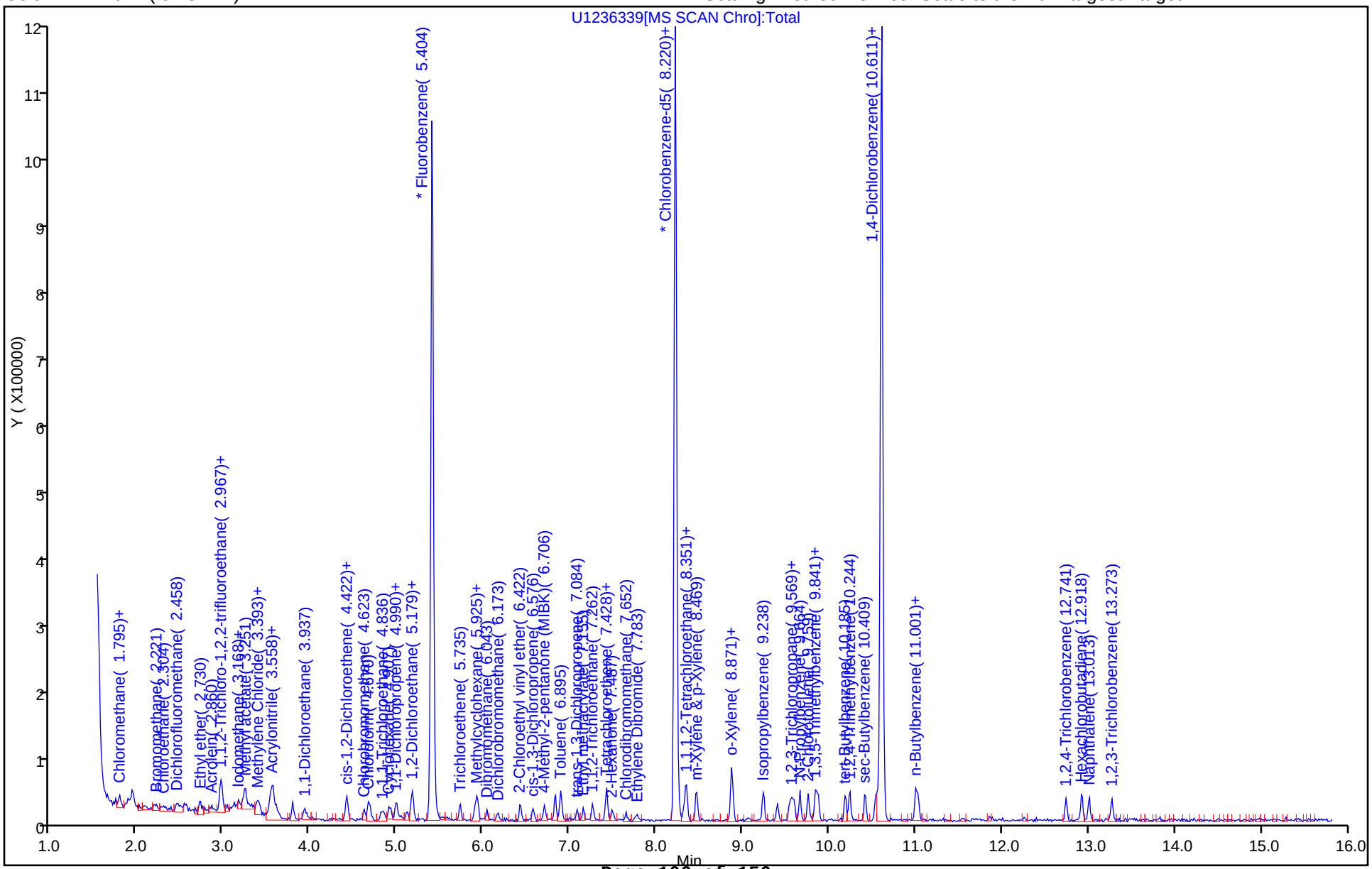
Lims ID: STD8260 L1 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260_12 Limit Group: MSV 624 ICAL

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Lab Sample ID: STD8260 240-154891/3 Calibration Date: 11/04/2014 18:25

Instrument ID: A3UX12 Calib Start Date: 03/18/2014 17:53

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/18/2014 19:56

Lab File ID: U1241292.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	0.4988	0.4089		0.0164	0.0200	-18.0	
Chloromethane	Ave	0.5020	0.5202		0.0207	0.0200	3.6	99.0
Vinyl chloride	Ave	0.5127	0.5147		0.0201	0.0200	0.4	96.0
Bromomethane	Ave	0.2464	0.2647		0.0215	0.0200	7.4	86.0
Chloroethane	Ave	0.3073	0.2887		0.0188	0.0200	-6.0	62.0
Dichlorofluoromethane	Ave	0.6201	0.6587		0.0212	0.0200	6.2	
Trichlorofluoromethane	Ave	0.4321	0.4928		0.0228	0.0200	14.1	52.0
Ethyl ether	Ave	0.2789	0.2835		0.0203	0.0200	1.6	
Acrolein	Ave	0.0458	0.0242		0.0528	0.100	-47.2	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3282	0.2745		0.0167	0.0200	-16.4	
1,1-Dichloroethene	Ave	0.6619	0.6518		0.0197	0.0200	-1.5	49.0
Acetone	Lin1		0.1118		0.0449	0.0400	12.3	
Iodomethane	Ave	0.4775	0.5174		0.0217	0.0200	8.4	
Carbon disulfide	Ave	1.240	1.298		0.0209	0.0200	4.7	
Methyl acetate	Ave	0.2571	0.2419		0.0941	0.100	-5.9	
Methylene Chloride	Ave	0.5455	0.4691		0.0172	0.0200	-14.0	39.0
2-Methyl-2-propanol	Ave	0.0269	0.0290		0.216	0.200	8.0	
Acrylonitrile	Ave	0.1282	0.1318		0.206	0.200	2.8	
Methyl tert-butyl ether	Ave	0.9500	0.9733		0.0205	0.0200	2.5	
trans-1,2-Dichloroethene	Ave	0.4839	0.4679		0.0193	0.0200	-3.3	30.0
Hexane	Ave	0.3235	0.2200		0.0136	0.0200	-32.0	
1,1-Dichloroethane	Ave	0.5808	0.4500		0.0155	0.0200	-22.5	27.0
Vinyl acetate	Ave	0.4223	0.1196		0.00544	0.0192	-71.7	
cis-1,2-Dichloroethene	Ave	0.4465	0.3953		0.0177	0.0200	-11.5	
2,2-Dichloropropane	Ave	0.2172	0.1472		0.0136	0.0200	-32.2	
2-Butanone (MEK)	Ave	0.1715	0.1393		0.0325	0.0400	-18.8	
Chlorobromomethane	Ave	0.2599	0.2243		0.0173	0.0200	-13.7	
Chloroform	Ave	0.5683	0.4959		0.0175	0.0200	-12.7	33.0
1,1,1-Trichloroethane	Ave	0.3150	0.2517		0.0160	0.0200	-20.1	25.0
Cyclohexane	Ave	0.4348	0.2775		0.0128	0.0200	-36.2	
1,1-Dichloropropene	Ave	0.4041	0.3661		0.0181	0.0200	-9.4	
Carbon tetrachloride	Ave	0.2352	0.2295		0.0195	0.0200	-2.4	27.0
Isobutyl alcohol	Ave	0.0052	0.0051		0.495	0.500	-1.0	
1,2-Dichloroethane	Ave	0.4374	0.3697		0.0169	0.0200	-15.5	32.0
Benzene	Ave	1.334	1.303		0.0195	0.0200	-2.3	36.0
Trichloroethene	Ave	0.3128	0.3412		0.0218	0.0200	9.1	33.0
Methylcyclohexane	Ave	0.3956	0.2610		0.0132	0.0200	-34.0	
1,2-Dichloropropane	Ave	0.3291	0.3002		0.0182	0.0200	-8.8	66.0
Dibromomethane	Ave	0.1741	0.2217		0.0255	0.0200	27.3	
Dichlorobromomethane	Ave	0.3832	0.3700		0.0193	0.0200	-3.5	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Lab Sample ID: STD8260 240-154891/3 Calibration Date: 11/04/2014 18:25

Instrument ID: A3UX12 Calib Start Date: 03/18/2014 17:53

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/18/2014 19:56

Lab File ID: U1241292.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	0.2307	0.1813		0.0314	0.0400	-21.4	99.0
cis-1,3-Dichloropropene	Ave	0.4702	0.4540		0.0193	0.0200	-3.4	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3112	0.2597		0.0334	0.0400	-16.5	
Toluene	Ave	1.909	1.843		0.0193	0.0200	-3.4	26.0
trans-1,3-Dichloropropene	Ave	0.4823	0.5033		0.0209	0.0200	4.4	50.0
Ethyl methacrylate	Ave	0.5356	0.4712		0.0176	0.0200	-12.0	
1,1,2-Trichloroethane	Ave	0.4064	0.3848		0.0189	0.0200	-5.3	29.0
Tetrachloroethene	Ave	0.3706	0.4061		0.0219	0.0200	9.6	26.0
1,3-Dichloropropane	Ave	0.7692	0.7112		0.0185	0.0200	-7.5	
2-Hexanone	Ave	0.3006	0.2666		0.0355	0.0400	-11.3	
Chlorodibromomethane	Ave	0.3318	0.3536		0.0213	0.0200	6.6	33.0
Ethylene Dibromide	Ave	0.3715	0.3922		0.0211	0.0200	5.6	
Chlorobenzene	Ave	1.210	1.185		0.0196	0.0200	-2.0	34.0
1,1,1,2-Tetrachloroethane	Ave	0.3316	0.3598		0.0217	0.0200	8.5	
Ethylbenzene	Ave	0.6027	0.5889		0.0195	0.0200	-2.3	41.0
m-Xylene & p-Xylene	Ave	0.7591	0.7533		0.0198	0.0200	-0.8	
o-Xylene	Ave	0.7461	0.7538		0.0202	0.0200	1.0	
Styrene	Ave	1.394	1.269		0.0182	0.0200	-9.0	
Bromoform	Ave	0.2022	0.2244		0.0222	0.0200	11.0	29.0
Isopropylbenzene	Ave	1.787	1.591		0.0178	0.0200	-11.0	
1,1,2,2-Tetrachloroethane	Ave	1.198	1.060		0.0177	0.0200	-11.5	39.0
Bromobenzene	Ave	0.9559	1.014		0.0212	0.0200	6.1	
1,2,3-Trichloropropane	Ave	0.3806	0.3560		0.0187	0.0200	-6.5	
trans-1,4-Dichloro-2-butene	Ave	0.3037	0.2286		0.0151	0.0200	-24.7	
N-Propylbenzene	Ave	0.9188	0.8018		0.0175	0.0200	-12.7	
2-Chlorotoluene	Ave	0.8590	0.8118		0.0189	0.0200	-5.5	
1,3,5-Trimethylbenzene	Ave	2.916	2.462		0.0169	0.0200	-15.6	
4-Chlorotoluene	Ave	0.9220	0.8819		0.0191	0.0200	-4.3	
tert-Butylbenzene	Ave	2.337	2.112		0.0181	0.0200	-9.6	
1,2,4-Trimethylbenzene	Ave	3.130	2.650		0.0169	0.0200	-15.3	
sec-Butylbenzene	Ave	3.401	2.829		0.0166	0.0200	-16.8	
1,3-Dichlorobenzene	Ave	1.739	1.728		0.0199	0.0200	-0.7	27.0
4-Isopropyltoluene	Ave	2.941	2.548		0.0173	0.0200	-13.4	
1,4-Dichlorobenzene	Ave	1.939	1.791		0.0185	0.0200	-7.7	37.0
n-Butylbenzene	Ave	2.682	2.037		0.0152	0.0200	-24.1	
1,2-Dichlorobenzene	Ave	1.751	1.733		0.0198	0.0200	-1.0	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.1650	0.2110		0.0256	0.0200	27.8	
1,2,4-Trichlorobenzene	Ave	1.017	0.9570		0.0188	0.0200	-5.9	
Hexachlorobutadiene	Lin1		0.3485		0.0191	0.0200	-4.4	
Naphthalene	Ave	3.240	2.772		0.0171	0.0200	-14.4	
1,2,3-Trichlorobenzene	Ave	0.9896	0.8035		0.0162	0.0200	-18.8	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Lab Sample ID: STD8260 240-154891/3 Calibration Date: 11/04/2014 18:25

Instrument ID: A3UX12 Calib Start Date: 03/18/2014 17:53

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 03/18/2014 19:56

Lab File ID: U1241292.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-Dichloroethane-d4 (Surr)	Ave	0.3400	0.3166		0.0186	0.0200	-6.9	20.0
Toluene-d8 (Surr)	Ave	1.466	1.575		0.0215	0.0200	7.4	
4-Bromofluorobenzene (Surr)	Ave	0.6017	0.5625		0.0187	0.0200	-6.5	

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241292.D
Lims ID: STD8260 L4
Client ID:
Sample Type: CCVIS
Inject. Date: 04-Nov-2014 18:25:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0037024-003
Operator ID: 001904 Instrument ID: A3UX12
Sublist: chrom-8260_12*sub32

Method: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 04-Nov-2014 20:35:45 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: laveyt Date: 04-Nov-2014 20:35:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.404	0.000	99	1134682	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	829305	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.599	10.599	0.000	93	431591	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	95	318785	NC	NC	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	86	359285	20.0	18.6	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	91	1305899	20.0	21.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	97	466468	20.0	18.7	
9 Dichlorodifluoromethane	85	1.641	1.641	0.000	99	464001	20.0	16.4	
10 Chloromethane	50	1.795	1.795	0.000	99	590289	20.0	20.7	
11 Vinyl chloride	62	1.902	1.902	0.000	98	584007	20.0	20.1	
12 Butadiene	54	1.925	1.925	0.000	96	456316	NC	NC	
13 Bromomethane	94	2.198	2.198	0.000	89	300331	20.0	21.5	
14 Chloroethane	64	2.280	2.280	0.000	97	327620	20.0	18.8	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	96	747367	20.0	21.2	
16 Trichlorofluoromethane	101	2.505	2.505	0.000	97	559205	20.0	22.8	
17 Ethyl ether	59	2.730	2.730	0.000	86	321675	20.0	20.3	
18 Acrolein	56	2.837	2.837	0.000	99	137103	100.0	52.8	
20 1,1,2-Trichloro-1,2,2-trif	101	2.955	2.955	0.000	56	311423	20.0	16.7	
22 1,1-Dichloroethene	61	2.955	2.955	0.000	97	739594	20.0	19.7	
21 Acetone	43	2.967	2.967	0.000	97	253721	40.0	44.9	
23 Iodomethane	142	3.097	3.097	0.000	98	587076	20.0	21.7	
24 Carbon disulfide	76	3.156	3.156	0.000	98	1473224	20.0	20.9	
26 Methyl acetate	43	3.239	3.239	0.000	96	1372646	100.0	94.1	
27 3-Chloro-1-propene	41	3.239	3.239	0.000	39	278737	NC	NC	
28 Methylene Chloride	49	3.357	3.357	0.000	89	532255	20.0	17.2	
29 2-Methyl-2-propanol	59	3.416	3.416	0.000	100	329331	200.0	216.1	
30 Acrylonitrile	53	3.535	3.535	0.000	100	1495162	200.0	205.5	
32 Methyl tert-butyl ether	73	3.558	3.558	0.000	94	1104401	20.0	20.5	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	95	530951	20.0	19.3	
33 Hexane	57	3.795	3.795	0.000	89	249681	20.0	13.6	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	100	510575	20.0	15.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
35 Vinyl acetate	43	3.949	3.949	0.000	96	130318	19.2	5.44	
39 cis-1,2-Dichloroethene	61	4.410	4.410	0.000	75	448527	20.0	17.7	
40 2-Butanone (MEK)	43	4.422	4.422	0.000	83	316140	40.0	32.5	
41 2,2-Dichloropropane	77	4.422	4.422	0.000	47	167049	20.0	13.6	
45 Chlorobromomethane	49	4.623	4.623	0.000	85	254491	20.0	17.3	
46 Tetrahydrofuran	42	4.659	4.659	0.000	86	188671	NC	NC	
47 Chloroform	83	4.683	4.683	0.000	92	562668	20.0	17.5	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	98	285546	20.0	16.0	
49 Cyclohexane	84	4.907	4.907	0.000	83	314814	20.0	12.8	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	98	415363	20.0	18.1	
51 Carbon tetrachloride	117	5.002	5.002	0.000	94	260350	20.0	19.5	
52 Isobutyl alcohol	41	5.049	5.049	0.000	91	145725	500.0	495.2	
53 Benzene	78	5.180	5.180	0.000	94	1478915	20.0	19.5	
54 1,2-Dichloroethane	62	5.180	5.180	0.000	95	419450	20.0	16.9	
56 n-Heptane	100	5.381	5.381	0.000	83	63765	NC	NC	
58 Trichloroethene	130	5.736	5.736	0.000	92	387146	20.0	21.8	
60 Methylcyclohexane	83	5.913	5.913	0.000	88	296116	20.0	13.2	
61 1,2-Dichloropropane	63	5.937	5.937	0.000	96	340675	20.0	18.2	
64 Dibromomethane	174	6.043	6.043	0.000	92	251551	20.0	25.5	
63 1,4-Dioxane	88	6.043	6.043	0.000	40	77869	NC	NC	
65 Dichlorobromomethane	83	6.173	6.173	0.000	98	419788	20.0	19.3	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	91	411326	40.0	31.4	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	97	515135	20.0	19.3	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	92	589439	40.0	33.4	
70 Toluene	91	6.895	6.895	0.000	99	1528779	20.0	19.3	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	90	417373	20.0	20.9	
72 Ethyl methacrylate	69	7.156	7.156	0.000	87	390785	20.0	17.6	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	89	319136	20.0	18.9	
75 Tetrachloroethene	166	7.416	7.416	0.000	93	336774	20.0	21.9	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	87	589834	20.0	18.5	
77 2-Hexanone	43	7.487	7.487	0.000	93	442210	40.0	35.5	
79 Chlorodibromomethane	129	7.653	7.653	0.000	89	293245	20.0	21.3	
80 Ethylene Dibromide	107	7.771	7.771	0.000	97	325232	20.0	21.1	
82 Chlorobenzene	112	8.244	8.244	0.000	97	982830	20.0	19.6	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	93	298413	20.0	21.7	
84 Ethylbenzene	106	8.351	8.351	0.000	98	488407	20.0	19.5	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	95	624728	20.0	19.8	
86 o-Xylene	106	8.871	8.871	0.000	96	625103	20.0	20.2	
87 Styrene	104	8.883	8.883	0.000	95	1052642	20.0	18.2	
88 Bromoform	173	9.073	9.073	0.000	98	186109	20.0	22.2	
89 Isopropylbenzene	105	9.238	9.238	0.000	95	1319350	20.0	17.8	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	99	457461	20.0	17.7	
92 Bromobenzene	156	9.570	9.570	0.000	92	437542	20.0	21.2	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.000	83	153645	20.0	18.7	
94 trans-1,4-Dichloro-2-buten	53	9.593	9.593	0.000	77	98676	20.0	15.1	
95 N-Propylbenzene	120	9.664	9.664	0.000	99	346028	20.0	17.5	
96 2-Chlorotoluene	126	9.759	9.759	0.000	98	350376	20.0	18.9	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	95	1062486	20.0	16.9	
98 4-Chlorotoluene	126	9.877	9.877	0.000	96	380622	20.0	19.1	
99 tert-Butylbenzene	119	10.185	10.185	0.000	89	911594	20.0	18.1	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	94	1143690	20.0	16.9	
102 sec-Butylbenzene	105	10.422	10.422	0.000	93	1220812	20.0	16.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	99	745636	20.0	19.9	
104 4-Isopropyltoluene	119	10.564	10.564	0.000	97	1099682	20.0	17.3	
105 1,4-Dichlorobenzene	146	10.635	10.635	0.000	95	772975	20.0	18.5	
108 n-Butylbenzene	91	11.001	11.001	0.000	97	878935	20.0	15.2	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	98	747951	20.0	19.8	
110 1,2-Dibromo-3-Chloropropan	157	11.853	11.853	0.000	89	91057	20.0	25.6	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	93	413017	20.0	18.8	
113 Hexachlorobutadiene	225	12.930	12.930	0.000	96	150392	20.0	19.1	
114 Naphthalene	128	13.001	13.001	0.000	96	1196454	20.0	17.1	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	94	346797	20.0	16.2	
S 124 1,2-Dichloroethene, Total	96				0		40.0	37.0	
S 125 1,3-Dichloropropene, Total	75				0		40.0	40.2	
S 126 Xylenes, Total	106				0		40.0	40.1	
S 127 Trihalomethanes, Total	1				0		80.0	80.3	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMRGAS_00076	Amount Added:	16.00	Units: uL
VMAROLISTDW_00072	Amount Added:	16.00	Units: uL
VMRPRIMW_00091	Amount Added:	16.00	Units: uL
vm50ss_00176	Amount Added:	16.00	Units: uL
vm100is_stk_00020	Amount Added:	1.00	Units: uL

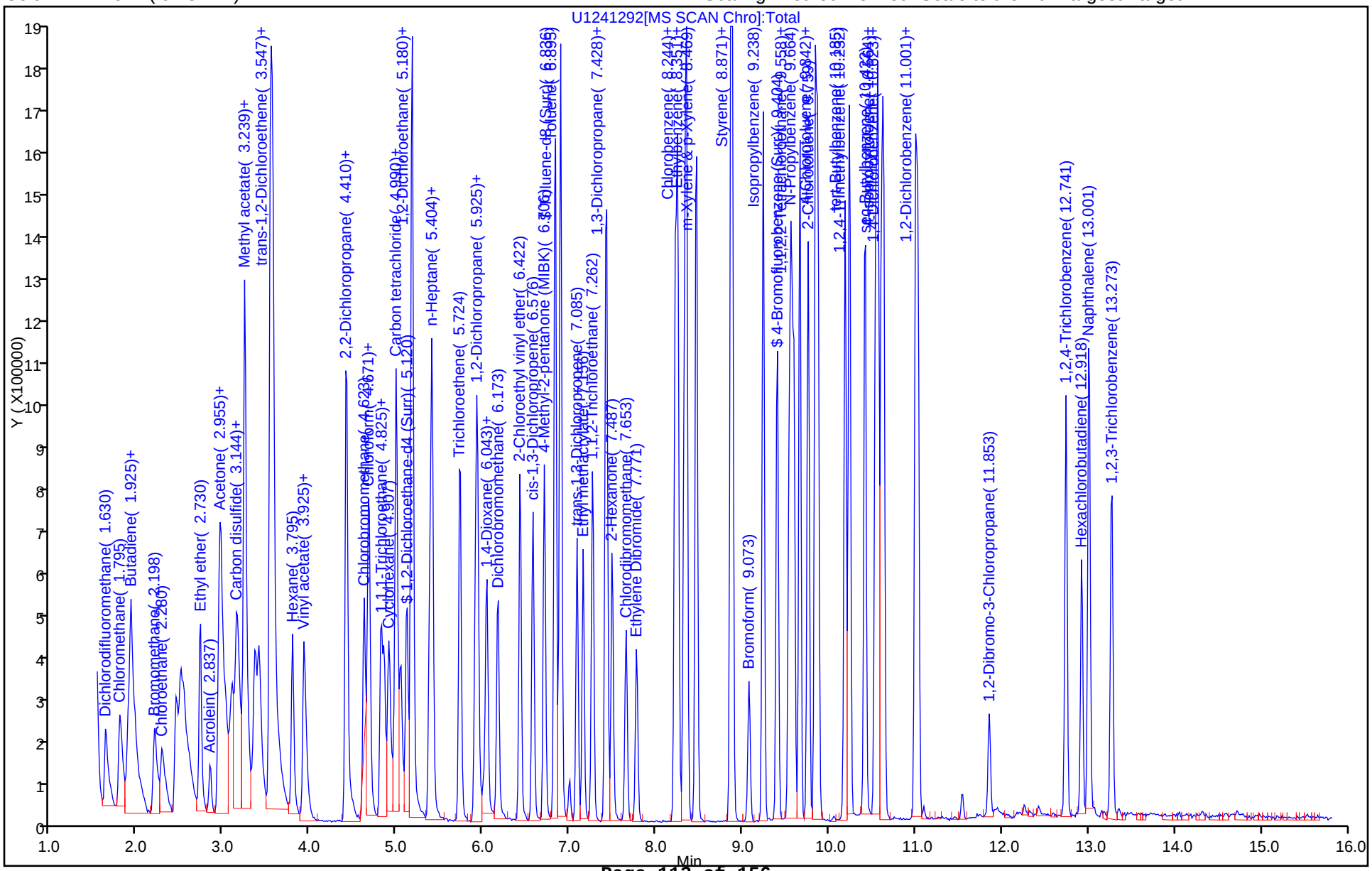
Report Date: 04-Nov-2014 20:35:46 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241292.D

Injection Date:	04-Nov-2014 18:25:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	STD8260 L4			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_12	Limit Group:	MSV 624 ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



TestAmerica Canton
Target Compound Quantitation Report

Data File:	\\Ncchrom\ChromData\A3UX12\20140318-29119.b\BFB2547.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	18-Mar-2014 17:23:30	ALS Bottle#:	1	Worklist Smp#:	1
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	240-0029119-001				
Operator ID:	001904	Instrument ID:	A3UX12		
Method:	\\Ncchrom\ChromData\A3UX12\20140318-29119.b\8260_12.m				
Limit Group:	MSV 624 ICAL				
Last Update:	19-Mar-2014 14:47:33	Calib Date:	18-Mar-2014 23:58:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS SCAN		
Process Host:	XAWRK030				

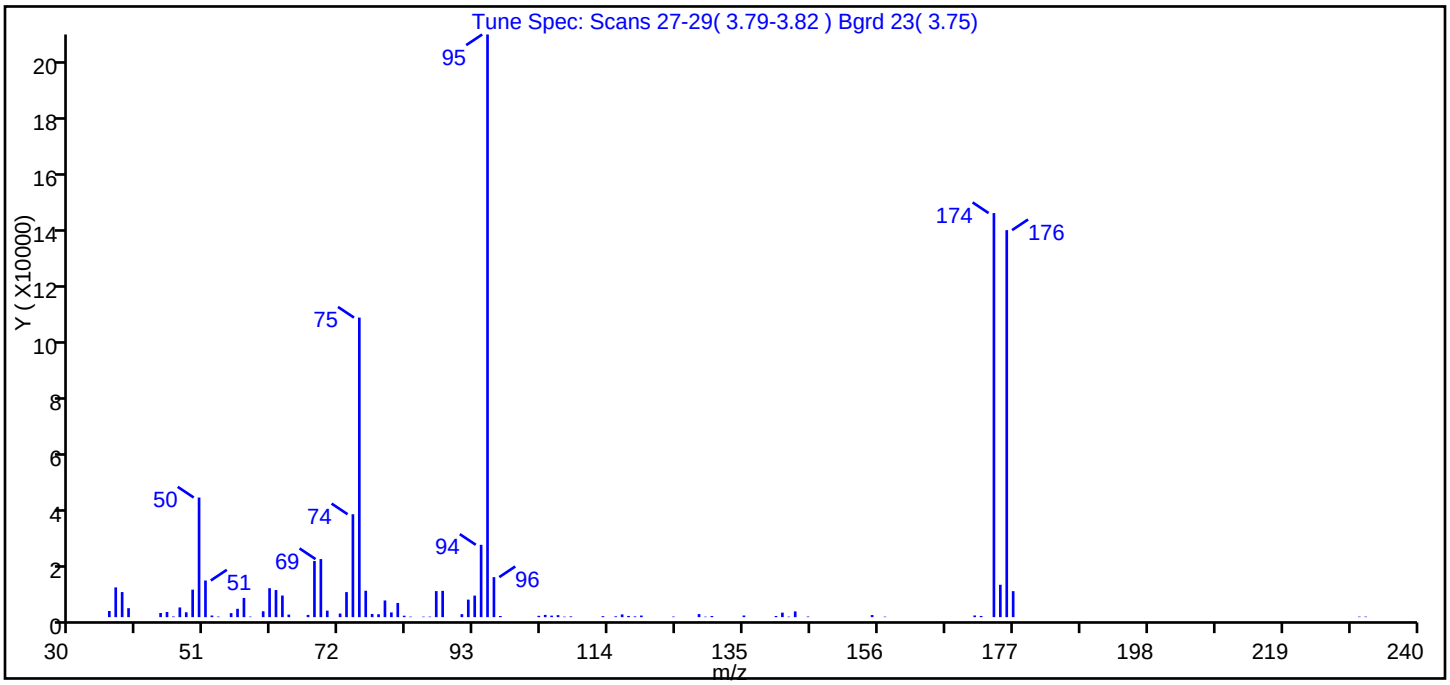
Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	On-Col Amt ug/l	Flags
$ 8 BFB	95	3.804	3.804	0.0	0	526645	NR	

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\BFB2547.D
Injection Date: 18-Mar-2014 17:23:30 Instrument ID: A3UX12
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 1 Worklist Smp#: 1
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12 Limit Group: MSV 624 ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.50
75	30.00 - 60.00% of mass 95	51.40
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	69.30
175	5.00 - 9.00% of mass 174	5.60 (8.00)
176	95.00 - 101.00% of mass 174	66.40 (95.80)
177	5.00 - 9.00% of mass 176	4.50 (6.70)

Data File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\BFB2547.D\8260_12.rslt\spectra.d
Injection Date: 18-Mar-2014 17:23:30
Spectrum: Tune Spec: Scans 27-29(3.79-3.82) Bgrd 23(3.75)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2188	63.00	7702	88.00	9367	128.00	1088
37.00	10591	64.00	907	91.00	1059	129.00	172
38.00	8933	67.00	798	92.00	6239	130.00	402
39.00	3191	68.00	19992	93.00	7679	135.00	582
44.00	1474	69.00	20680	94.00	25768	140.00	412
45.00	1844	70.00	2312	95.00	207552	141.00	1601
46.00	234	72.00	1287	96.00	14255	142.00	184
47.00	3455	73.00	8924	97.00	408	143.00	2051
48.00	1732	74.00	36656	103.00	476	145.00	213
49.00	9799	75.00	106704	104.00	804	155.00	748
50.00	42608	76.00	9405	105.00	535	157.00	171
51.00	13055	77.00	1138	106.00	719	171.00	600
52.00	579	78.00	1037	107.00	177	172.00	426
53.00	194	79.00	5940	108.00	268	174.00	143936
55.00	1425	80.00	1685	113.00	344	175.00	11533
56.00	2973	81.00	5058	115.00	294	176.00	137856
57.00	6847	82.00	513	116.00	972	177.00	9260
58.00	185	83.00	179	117.00	424	231.00	185
60.00	2092	85.00	173	118.00	268	232.00	186
61.00	10305	86.00	184	119.00	565		
62.00	9654	87.00	9279	124.00	201		

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\BFB2777.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 04-Nov-2014 18:01:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 mL Dil. Factor: 1.0000
Sample Info: 240-0037024-002
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 04-Nov-2014 20:32:03 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: laveyt Date: 04-Nov-2014 20:32:03

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 8 BFB	95	3.745	3.745	0.000	0	710796	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

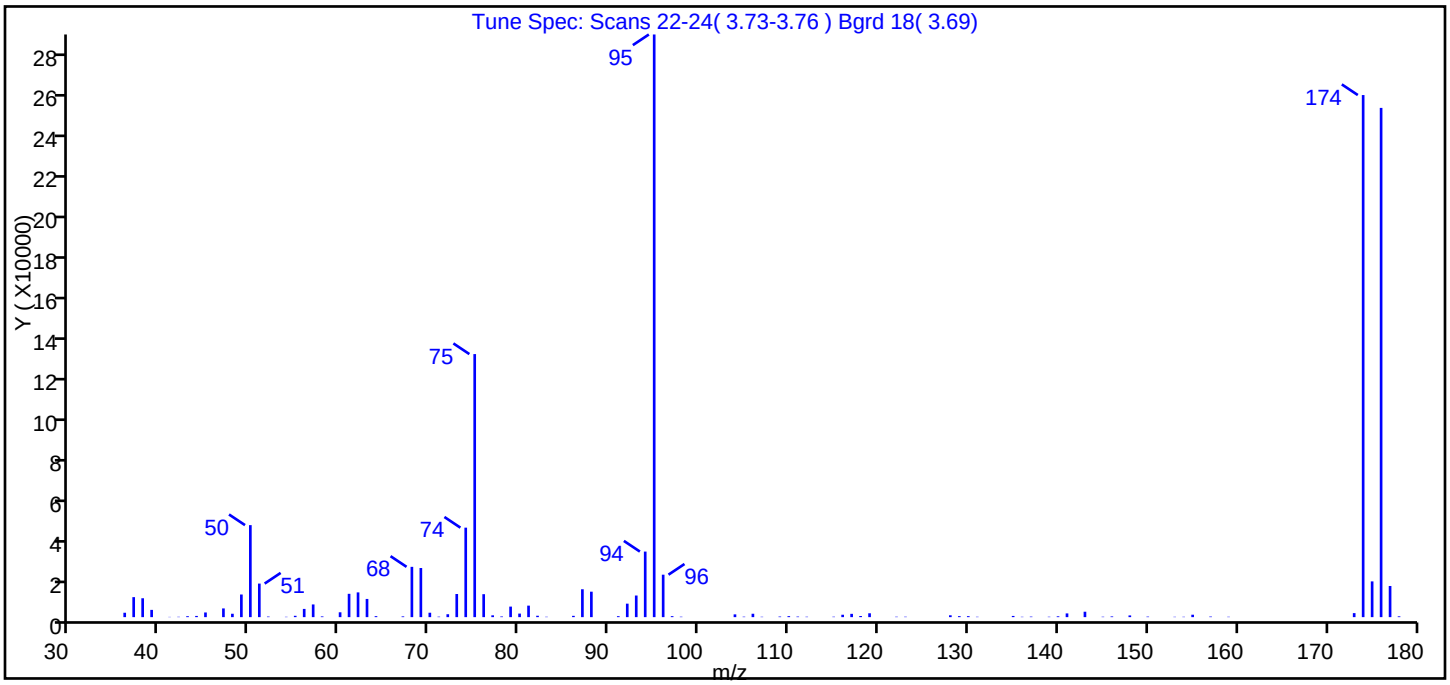
vmbfb_00012 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\BFB2777.D
Injection Date: 04-Nov-2014 18:01:30 Instrument ID: A3UX12
Lims ID: BFB
Client ID:
Operator ID: 001904 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 mL Dil. Factor: 1.0000
Method: 8260_12 Limit Group: MSV 624 ICAL
Tune Method: BFB Method 8260

$ 8 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.80
75	30.00 - 60.00% of mass 95	45.10
96	5.00 - 9.00% of mass 95	7.30
173	Less than 2.00% of mass 174	0.70 (0.80)
174	50.00 - 120.00% of mass 95	89.60
175	5.00 - 9.00% of mass 174	6.10 (6.80)
176	95.00 - 101.00% of mass 174	87.40 (97.50)
177	5.00 - 9.00% of mass 176	5.30 (6.10)

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\BFB2777.D\8260_12.rslt\spectra.d
Injection Date: 04-Nov-2014 18:01:30
Spectrum: Tune Spec: Scans 22-24(3.73-3.76) Bgrd 18(3.69)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2170	64.00	493	94.00	32352	135.00	594
37.00	9869	67.00	369	95.00	287488	136.00	177
38.00	9322	68.00	24816	96.00	20952	137.00	263
39.00	3584	69.00	24240	97.00	484	139.00	201
41.00	121	70.00	2182	98.00	213	140.00	412
42.00	170	71.00	238	104.00	1371	141.00	1842
43.00	464	72.00	1437	105.00	229	143.00	2675
44.00	597	73.00	11414	106.00	1678	145.00	207
45.00	2306	74.00	44152	107.00	183	146.00	352
47.00	4303	75.00	129792	109.00	296	148.00	845
48.00	1677	76.00	11327	110.00	490	150.00	261
49.00	11172	77.00	898	111.00	280	153.00	169
50.00	45400	78.00	329	112.00	205	154.00	179
51.00	16560	79.00	5200	115.00	218	155.00	1200
52.00	285	80.00	1756	116.00	1189	157.00	288
54.00	168	81.00	5682	117.00	1631	159.00	184
55.00	665	82.00	689	118.00	559	173.00	1984
56.00	4060	83.00	183	119.00	1907	174.00	257600
57.00	6268	86.00	642	122.00	211	175.00	17640
58.00	358	87.00	13763	123.00	209	176.00	251264
60.00	2396	88.00	12562	128.00	908	177.00	15372
61.00	11509	91.00	470	129.00	493	178.00	397
62.00	12216	92.00	6653	130.00	486		
63.00	8980	93.00	10670	131.00	185		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-43797-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-154891/5

Matrix: Water | Lab File ID: U1241295.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/04/2014 19:34

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.: 154891 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.17	U	1.0	0.17
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
110-75-8	2-Chloroethyl vinyl ether	1.2	U	2.0	1.2
107-02-8	Acrolein	1.4	U	20	1.4
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.24	U	1.0	0.24
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	2.0	0.63
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.33	U	2.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
75-09-2	Methylene Chloride	0.331	J	2.0	0.28
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	0.50	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-154891/5

Matrix: Water Lab File ID: U1241295.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/04/2014 19:34

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.: 154891 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		80-125
460-00-4	4-Bromofluorobenzene (Surr)	93		80-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241295.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 04-Nov-2014 19:34:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0037024-005
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 04-Nov-2014 20:31:40 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: laveyt Date: 04-Nov-2014 20:31:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.405	-0.001	99	1063287	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	784603	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.599	0.012	93	398588	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	95	300011	NC	NC	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.120	5.120	0.000	89	344975	20.0	19.1	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	91	1236894	20.0	21.5	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	97	438245	20.0	18.6	
9 Dichlorodifluoromethane	85		1.641					ND	
10 Chloromethane	50		1.795					ND	
11 Vinyl chloride	62		1.902					ND	
12 Butadiene	54		1.925					ND	
13 Bromomethane	94		2.198					ND	
14 Chloroethane	64		2.280					ND	
15 Dichlorofluoromethane	67		2.446					ND	
16 Trichlorofluoromethane	101		2.505					ND	
17 Ethyl ether	59		2.730					ND	
18 Acrolein	56		2.837					ND	
19 Methylal	45		2.856					ND	
20 1,1,2-Trichloro-1,2,2-trif	101		2.955					ND	
22 1,1-Dichloroethene	61		2.955					ND	
21 Acetone	43		2.967					ND	
23 Iodomethane	142		3.097					ND	
24 Carbon disulfide	76		3.156					ND	
25 Acetonitrile	41		3.204					ND	
26 Methyl acetate	43		3.239					ND	
27 3-Chloro-1-propene	41		3.239					ND	
28 Methylene Chloride	49	3.381	3.357	0.024	29	9595		0.3309	M
29 2-Methyl-2-propanol	59		3.416					ND	
30 Acrylonitrile	53		3.535					ND	
32 Methyl tert-butyl ether	73		3.558					ND	
31 trans-1,2-Dichloroethene	61		3.570					ND	
33 Hexane	57		3.795					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
34 1,1-Dichloroethane	63		3.925					ND	
35 Vinyl acetate	43		3.949					ND	
36 Isopropyl ether	87		3.973					ND	
37 2-Chloro-1,3-butadiene	53		4.008					ND	
38 Tert-butyl ethyl ether	59		4.269					ND	
39 cis-1,2-Dichloroethene	61		4.410					ND	
41 2,2-Dichloropropane	77		4.422					ND	
40 2-Butanone (MEK)	43		4.422					ND	
42 Ethyl acetate	43		4.458					ND	
43 Propionitrile	54		4.470					ND	
44 Methacrylonitrile	41		4.600					ND	
45 Chlorobromomethane	49		4.623					ND	
46 Tetrahydrofuran	42		4.659					ND	
47 Chloroform	83		4.683					ND	
48 1,1,1-Trichloroethane	97		4.848					ND	
49 Cyclohexane	84		4.907					ND	
50 1,1-Dichloropropene	75		4.990					ND	
51 Carbon tetrachloride	117		5.002					ND	
52 Isobutyl alcohol	41		5.049					ND	
53 Benzene	78		5.180					ND	
54 1,2-Dichloroethane	62		5.180					ND	
55 Tert-amyl methyl ether	73		5.251					ND	
56 n-Heptane	100		5.381					ND	
57 n-Butanol	56		5.618					ND	
58 Trichloroethene	130		5.736					ND	
59 Ethyl acrylate	55		5.795					ND	
60 Methylcyclohexane	83		5.913					ND	
61 1,2-Dichloropropane	63		5.937					ND	
62 Methyl methacrylate	41		6.008					ND	
64 Dibromomethane	174		6.043					ND	
63 1,4-Dioxane	88		6.043					ND	
65 Dichlorobromomethane	83		6.173					ND	
66 2-Nitropropane	41		6.363					ND	
67 2-Chloroethyl vinyl ether	63		6.422					ND	
68 cis-1,3-Dichloropropene	75		6.576					ND	
69 4-Methyl-2-pentanone (MIBK	43		6.706					ND	
70 Toluene	91		6.895					ND	
71 trans-1,3-Dichloropropene	75		7.085					ND	
72 Ethyl methacrylate	69		7.156					ND	
73 Tetrahydrothiophene	60		7.255					ND	
74 1,1,2-Trichloroethane	97		7.262					ND	
75 Tetrachloroethene	166		7.416					ND	
76 1,3-Dichloropropane	76		7.428					ND	
77 2-Hexanone	43		7.487					ND	
78 n-Butyl acetate	43		7.605					ND	
79 Chlorodibromomethane	129		7.653					ND	
80 Ethylene Dibromide	107		7.771					ND	
81 1-Chlorohexane	91		8.209					ND	
82 Chlorobenzene	112		8.244					ND	
83 1,1,1,2-Tetrachloroethane	131		8.327					ND	
84 Ethylbenzene	106		8.351					ND	
85 m-Xylene & p-Xylene	106		8.469					ND	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 o-Xylene	106		8.871					ND	
87 Styrene	104		8.883					ND	
88 Bromoform	173		9.073					ND	
89 Isopropylbenzene	105		9.238					ND	
90 Cyclohexanone	55		9.345					ND	
91 1,1,2,2-Tetrachloroethane	83		9.534					ND	
92 Bromobenzene	156		9.570					ND	
93 1,2,3-Trichloropropane	110		9.593					ND	
94 trans-1,4-Dichloro-2-buten	53		9.593					ND	
95 N-Propylbenzene	120		9.664					ND	
96 2-Chlorotoluene	126		9.759					ND	
97 1,3,5-Trimethylbenzene	105		9.842					ND	
98 4-Chlorotoluene	126		9.877					ND	
99 tert-Butylbenzene	119		10.185					ND	
100 Pentachloroethane	167		10.209					ND	
101 1,2,4-Trimethylbenzene	105		10.232					ND	
102 sec-Butylbenzene	105		10.422					ND	
103 1,3-Dichlorobenzene	146		10.540					ND	
104 4-Isopropyltoluene	119		10.564					ND	
105 1,4-Dichlorobenzene	146		10.635					ND	
106 1,2,3-Trimethylbenzene	105		10.682					ND	
107 Benzyl chloride	91		10.765					ND	
108 n-Butylbenzene	91		11.001					ND	
109 1,2-Dichlorobenzene	146		11.025					ND	
110 1,2-Dibromo-3-Chloropropan	157		11.853					ND	
111 1,3,5-Trichlorobenzene	180	12.078	12.078	0.000	93	13895		NC	
112 1,2,4-Trichlorobenzene	180	12.753	12.741	0.012	1	2425		0.1196	
113 Hexachlorobutadiene	225		12.930					ND	
114 Naphthalene	128		13.001					ND	
115 1,2,3-Trichlorobenzene	180		13.273					ND	
116 2-Methylnaphthalene	142	14.362	14.374	-0.012	95	152944		4.29	
119 Ethylene oxide	1		0.000					ND	
120 1,4-Dichlorobutane	1		0.000					ND	
123 Pentachloroethane TIC	1		0.000					ND	
118 Propene oxide	1		0.000					ND	
122 3-Ethyltoluene	1		0.000					ND	
121 Epichlorohydrin	1		0.000					ND	
117 2-Ethyltoluene	1		0.000					ND	
S 124 1,2-Dichloroethene, Total	96		1.140					0	
S 125 1,3-Dichloropropene, Total	75		6.760					0	
S 126 Xylenes, Total	106		16.530					0	
S 127 Trihalomethanes, Total	1		0.000					0	
T 133 Chlorodifluoromethane TIC	51		1.650					0	
T 128 1,3-Butadiene TIC	39		2.140					0	
T 129 Hexachloroethane TIC	166		10.910					0	
T 130 Isobutylene TIC	1		0.000					0	
T 131 1,3-Diethylbenzene TIC	1		0.000					0	
T 132 Butyl Methacrylate TIC	1		0.000					0	

QC Flag Legend

Processing Flags

NC - Not Calibrated

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

vm100is_stk_00020	Amount Added:	1.00	Units: uL
vm50ss_00176	Amount Added:	16.00	Units: uL

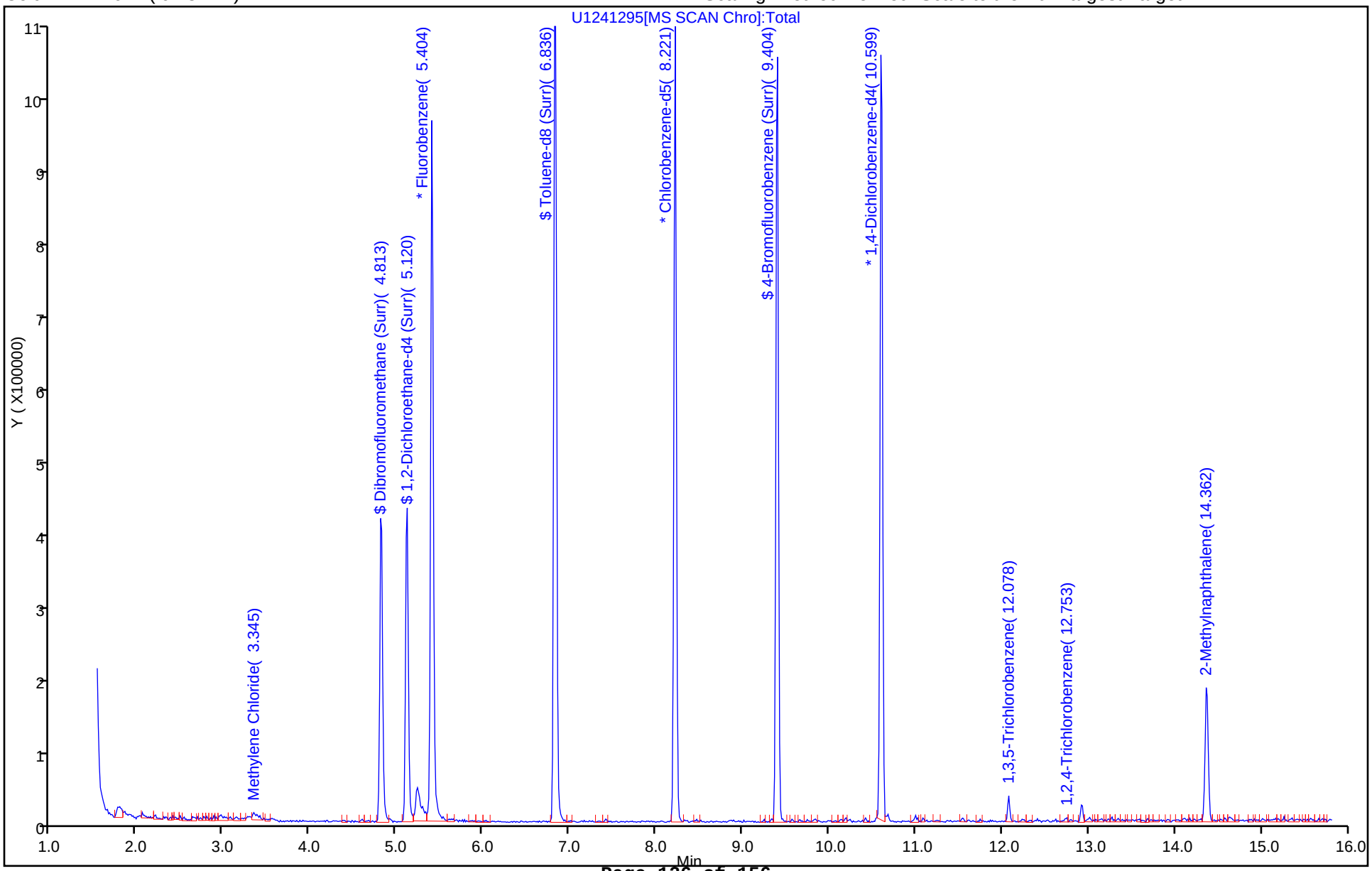
Report Date: 04-Nov-2014 20:31:50 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241295.D

Injection Date:	04-Nov-2014 19:34:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	MB			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260_12	Limit Group:	MSV 624 ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



Report Date: 04-Nov-2014 20:31:50 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241295.D

Injection Date: 04-Nov-2014 19:34:30 Instrument ID: A3UX12

Lims ID: MB

Client ID:

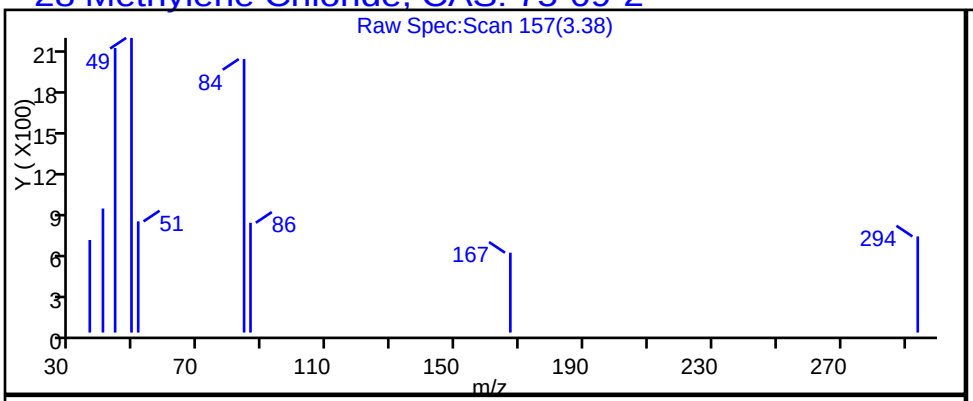
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 5

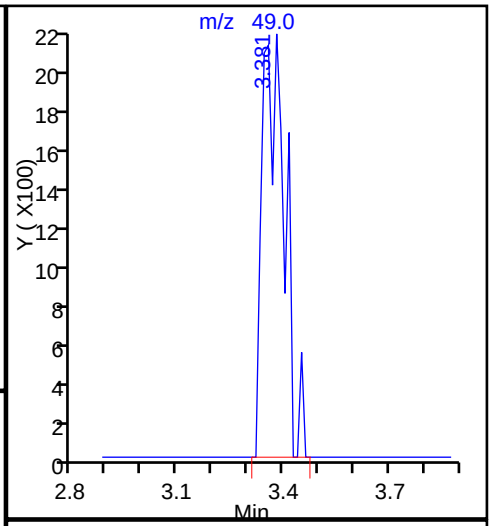
Purge Vol: 5.000 mL Dil. Factor: 1.0000

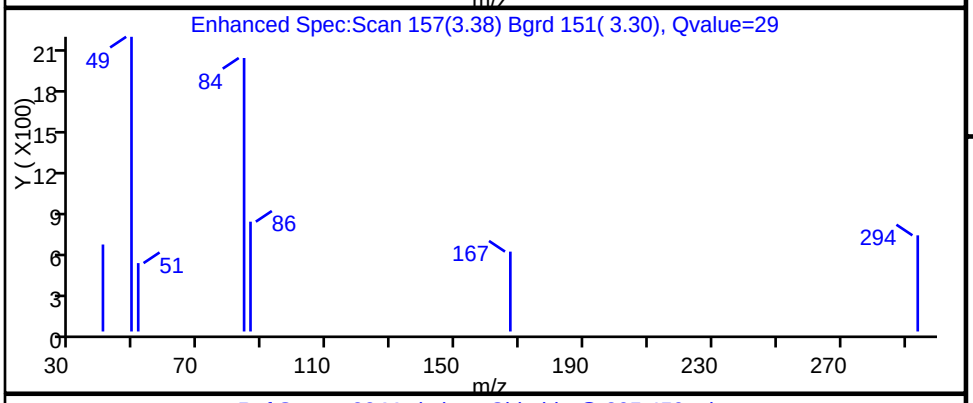
Method: 8260_12 Limit Group: MSV 624 ICAL

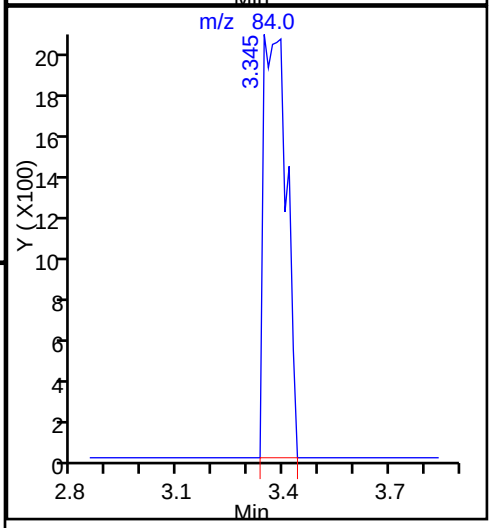
Column: DB-624 (0.18 mm) Detector MS SCAN

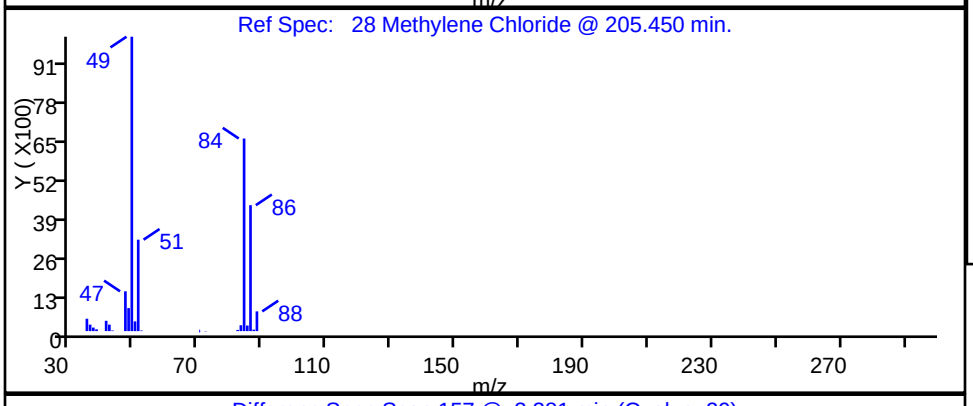
28 Methylene Chloride, CAS: 75-09-2

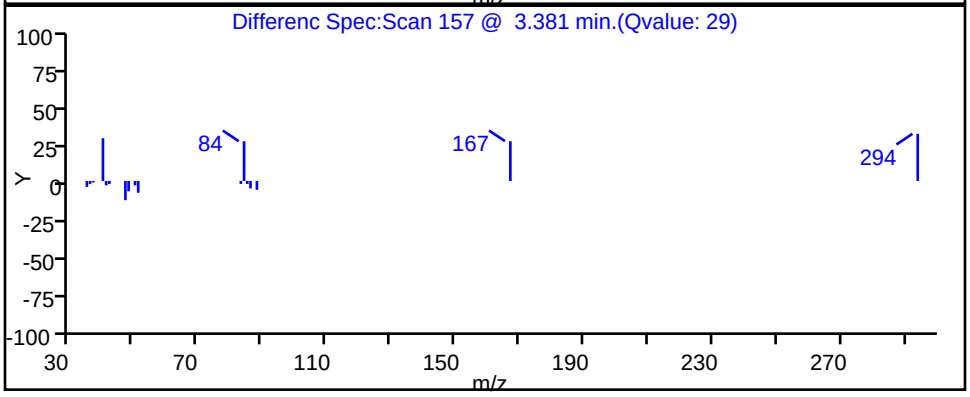












Manual Integration/User Assign Peak Report

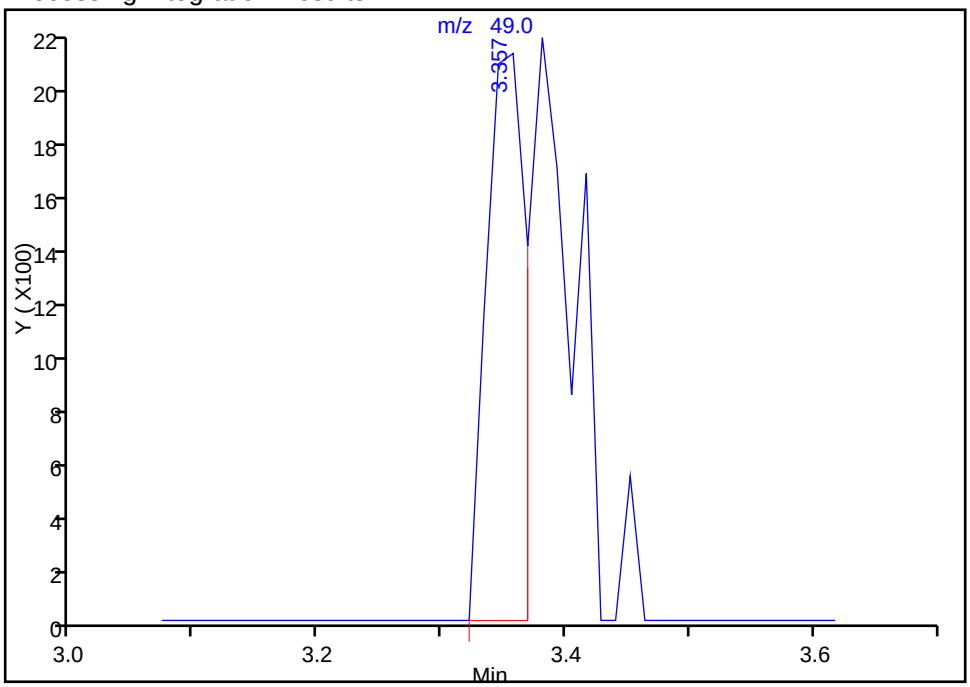
TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241295.D
Injection Date: 04-Nov-2014 19:34:30 Instrument ID: A3UX12
Lims ID: MB
Client ID:
Operator ID: 001904 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_12 Limit Group: MSV 624 ICAL
Column: DB-624 (0.18 mm) Detector MS SCAN

28 Methylene Chloride, CAS: 75-09-2

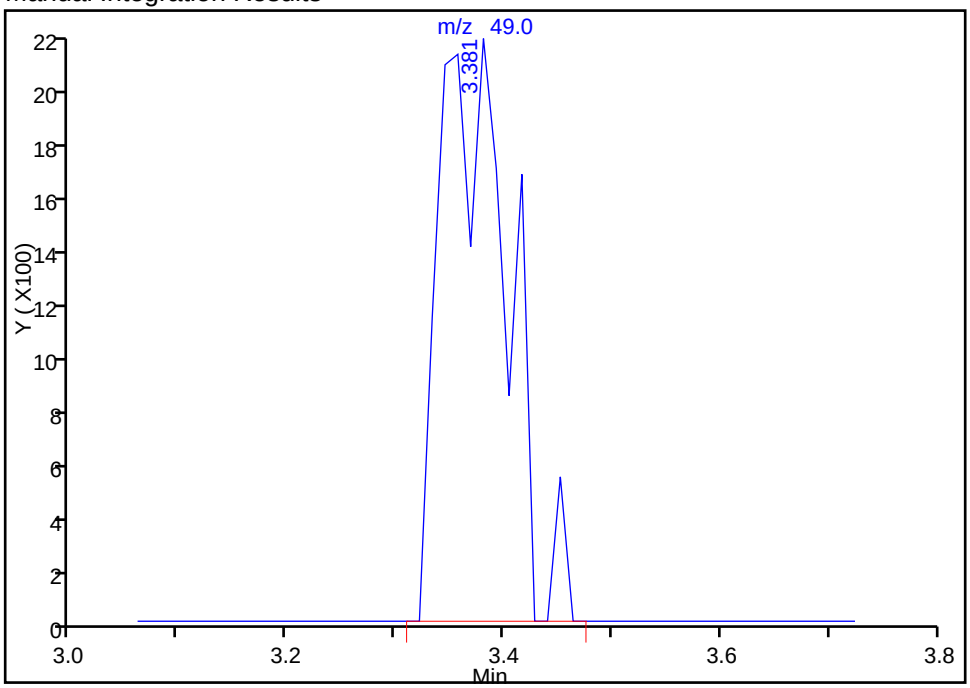
Processing Integration Results

RT: 3.36
Response: 4731
Amount: 0.163141



Manual Integration Results

RT: 3.38
Response: 9595
Amount: 0.330868



Reviewer: laveyt, 04-Nov-2014 20:30:13
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-43797-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-154891/6

Matrix: Water | Lab File ID: U1241293.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/04/2014 18:48

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.: 154891 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	16.3		1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	17.4		1.0	0.22
79-00-5	1,1,2-Trichloroethane	19.0		1.0	0.17
75-34-3	1,1-Dichloroethane	16.9		1.0	0.26
75-35-4	1,1-Dichloroethene	19.7		1.0	0.45
95-50-1	1,2-Dichlorobenzene	20.0		1.0	0.17
107-06-2	1,2-Dichloroethane	16.2		1.0	0.20
78-87-5	1,2-Dichloropropane	17.8		1.0	0.22
541-73-1	1,3-Dichlorobenzene	19.9		1.0	0.17
106-46-7	1,4-Dichlorobenzene	18.5		1.0	0.16
110-75-8	2-Chloroethyl vinyl ether	17.6		2.0	1.2
107-02-8	Acrolein	71.1		20	1.4
107-13-1	Acrylonitrile	210		20	6.3
71-43-2	Benzene	19.7		1.0	0.24
75-25-2	Bromoform	21.1		1.0	0.56
74-83-9	Bromomethane	23.0		2.0	0.63
56-23-5	Carbon tetrachloride	20.6		1.0	0.17
108-90-7	Chlorobenzene	19.2		1.0	0.19
124-48-1	Chlorodibromomethane	20.0		1.0	0.43
75-00-3	Chloroethane	18.3		2.0	0.33
67-66-3	Chloroform	17.7		1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	19.6		1.0	0.46
75-27-4	Dichlorobromomethane	18.8		1.0	0.15
100-41-4	Ethylbenzene	18.9		1.0	0.23
75-09-2	Methylene Chloride	16.6		2.0	0.28
127-18-4	Tetrachloroethene	21.0		1.0	0.20
108-88-3	Toluene	18.5		1.0	0.22
156-60-5	trans-1,2-Dichloroethene	18.9		0.50	0.26
10061-02-6	trans-1,3-Dichloropropene	22.4		1.0	0.56
79-01-6	Trichloroethene	21.9		1.0	0.15
75-69-4	Trichlorofluoromethane	22.3		2.0	0.49
75-01-4	Vinyl chloride	19.2		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-154891/6

Matrix: Water Lab File ID: U1241293.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/04/2014 18:48

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.: 154891 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		80-125
460-00-4	4-Bromofluorobenzene (Surr)	88		80-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241293.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 04-Nov-2014 18:48:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0037024-006
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 04-Nov-2014 20:31:40 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: laveyt Date: 04-Nov-2014 20:31:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.405	-0.001	99	1140081	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	860076	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.611	10.599	0.012	91	435996	20.0	20.0	
$ 4 Dibromofluoromethane (Surr	113	4.813	4.813	0.000	94	318796	NC	NC	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.109	5.120	-0.012	86	350120	20.0	18.1	
$ 6 Toluene-d8 (Surr)	98	6.824	6.836	-0.012	92	1295895	20.0	20.6	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	96	457672	20.0	17.7	
9 Dichlorodifluoromethane	85	1.630	1.641	-0.011	98	398883	20.0	14.0	
10 Chloromethane	50	1.795	1.795	0.000	99	548245	20.0	19.2	
11 Vinyl chloride	62	1.902	1.902	0.000	97	560835	20.0	19.2	
12 Butadiene	54	1.925	1.925	0.000	96	449441	NC	NC	
13 Bromomethane	94	2.198	2.198	0.000	89	323727	20.0	23.0	
14 Chloroethane	64	2.292	2.280	0.012	98	320913	20.0	18.3	
15 Dichlorofluoromethane	67	2.446	2.446	0.000	96	777951	20.0	22.0	
16 Trichlorofluoromethane	101	2.505	2.505	0.000	97	550418	20.0	22.3	
17 Ethyl ether	59	2.718	2.730	-0.012	87	321814	20.0	20.2	
18 Acrolein	56	2.837	2.837	0.000	98	185553	100.0	71.1	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.955	-0.012	52	330725	20.0	17.7	
22 1,1-Dichloroethene	61	2.955	2.955	0.000	94	744121	20.0	19.7	
21 Acetone	43	2.967	2.967	0.000	98	247716	40.0	43.6	
23 Iodomethane	142	3.097	3.097	0.000	98	617734	20.0	22.7	
24 Carbon disulfide	76	3.156	3.156	0.000	99	1546002	20.0	21.9	
26 Methyl acetate	43	3.239	3.239	0.000	96	1371823	100.0	93.6	
27 3-Chloro-1-propene	41	3.239	3.239	0.000	39	273829	NC	NC	
28 Methylene Chloride	49	3.357	3.357	0.000	84	514892	20.0	16.6	
29 2-Methyl-2-propanol	59	3.405	3.416	-0.011	100	383267	200.0	250.3	
30 Acrylonitrile	53	3.535	3.535	0.000	100	1537962	200.0	210.4	
32 Methyl tert-butyl ether	73	3.558	3.558	0.000	93	1130385	20.0	20.9	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	92	520108	20.0	18.9	
33 Hexane	57	3.795	3.795	0.000	85	274783	20.0	14.9	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	100	559336	20.0	16.9	
35 Vinyl acetate	43	3.949	3.949	0.000	96	186758	16.0	7.76	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
39 cis-1,2-Dichloroethene	61	4.410	4.410	0.000	78	465315	20.0	18.3	
41 2,2-Dichloropropane	77	4.422	4.422	0.000	81	186089	20.0	15.0	
40 2-Butanone (MEK)	43	4.410	4.422	-0.012	83	312744	40.0	32.0	
45 Chlorobromomethane	49	4.623	4.623	0.000	86	265347	20.0	17.9	
46 Tetrahydrofuran	42	4.659	4.659	0.000	86	181994	NC	NC	
47 Chloroform	83	4.683	4.683	-0.001	92	573748	20.0	17.7	
48 1,1,1-Trichloroethane	97	4.848	4.848	0.000	97	293442	20.0	16.3	
49 Cyclohexane	84	4.907	4.907	0.000	85	294182	20.0	11.9	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	99	452455	20.0	19.6	
51 Carbon tetrachloride	117	5.002	5.002	0.000	96	276162	20.0	20.6	
52 Isobutyl alcohol	41	5.049	5.049	0.000	92	187437	500.0	634.0	
53 Benzene	78	5.168	5.180	-0.012	93	1497081	20.0	19.7	
54 1,2-Dichloroethane	62	5.179	5.180	-0.001	95	405005	20.0	16.2	
56 n-Heptane	100	5.381	5.381	0.000	85	76882	NC	NC	
58 Trichloroethene	130	5.724	5.736	-0.012	94	389798	20.0	21.9	
60 Methylcyclohexane	83	5.913	5.913	0.000	86	306099	20.0	13.6	
61 1,2-Dichloropropane	63	5.925	5.937	-0.012	96	333080	20.0	17.8	
64 Dibromomethane	174	6.043	6.043	0.000	90	261247	20.0	26.3	
63 1,4-Dioxane	88	6.043	6.043	0.000	43	96606	NC	NC	
65 Dichlorobromomethane	83	6.162	6.173	-0.011	99	410937	20.0	18.8	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	92	231791	24.0	17.6	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	98	524809	20.0	19.6	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	92	580356	40.0	32.7	
70 Toluene	91	6.895	6.895	0.000	100	1516111	20.0	18.5	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	90	463756	20.0	22.4	
72 Ethyl methacrylate	69	7.156	7.156	0.000	87	409301	20.0	17.8	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	89	332842	20.0	19.0	
75 Tetrachloroethene	166	7.416	7.416	0.000	95	335010	20.0	21.0	
76 1,3-Dichloropropane	76	7.428	7.428	0.000	87	574212	20.0	17.4	
77 2-Hexanone	43	7.487	7.487	0.000	93	446033	40.0	34.5	
79 Chlorodibromomethane	129	7.653	7.653	0.000	91	285591	20.0	20.0	
80 Ethylene Dibromide	107	7.771	7.771	0.000	99	323932	20.0	20.3	
82 Chlorobenzene	112	8.244	8.244	0.000	96	1000917	20.0	19.2	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	94	291752	20.0	20.5	
84 Ethylbenzene	106	8.351	8.351	0.000	98	490541	20.0	18.9	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	96	604537	20.0	18.5	
86 o-Xylene	106	8.871	8.871	0.000	96	624362	20.0	19.5	
87 Styrene	104	8.871	8.883	-0.012	94	1011470	20.0	16.9	
88 Bromoform	173	9.073	9.073	0.000	97	183360	20.0	21.1	
89 Isopropylbenzene	105	9.238	9.238	0.000	95	1333639	20.0	17.4	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	99	455603	20.0	17.4	
92 Bromobenzene	156	9.558	9.570	-0.012	91	449590	20.0	21.6	
93 1,2,3-Trichloropropane	110	9.593	9.593	0.000	82	159611	20.0	19.2	
94 trans-1,4-Dichloro-2-buten	53	9.593	9.593	0.000	72	93944	20.0	14.2	
95 N-Propylbenzene	120	9.664	9.664	0.000	99	358884	20.0	17.9	
96 2-Chlorotoluene	126	9.759	9.759	0.000	97	361157	20.0	19.3	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	95	1079876	20.0	17.0	
98 4-Chlorotoluene	126	9.865	9.877	-0.012	97	388544	20.0	19.3	
99 tert-Butylbenzene	119	10.185	10.185	0.000	88	940732	20.0	18.5	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	94	1144816	20.0	16.8	
102 sec-Butylbenzene	105	10.410	10.422	-0.012	93	1273594	20.0	17.2	
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	98	754080	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
104 4-Isopropyltoluene	119	10.563	10.564	-0.001	96	1120102	20.0	17.5	
105 1,4-Dichlorobenzene	146	10.634	10.635	0.000	96	782965	20.0	18.5	
108 n-Butylbenzene	91	11.001	11.001	0.000	97	925549	20.0	15.8	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	99	762438	20.0	20.0	
110 1,2-Dibromo-3-Chloropropan	157	11.853	11.853	0.000	87	95772	20.0	26.6	
112 1,2,4-Trichlorobenzene	180	12.741	12.741	0.000	93	443932	20.0	20.0	
113 Hexachlorobutadiene	225	12.918	12.930	-0.012	96	158299	20.0	20.0	
114 Naphthalene	128	13.001	13.001	0.000	97	1243940	20.0	17.6	
115 1,2,3-Trichlorobenzene	180	13.273	13.273	0.000	96	378306	20.0	17.5	
S 126 Xylenes, Total	106				0		40.0	38.0	
S 127 Trihalomethanes, Total	1				0		80.0	77.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

VMFASGW_00063	Amount Added:	16.00	Units: uL
VMFASAW_00055	Amount Added:	16.00	Units: uL
VMFASPW_00060	Amount Added:	16.00	Units: uL
vm100is_stk_00020	Amount Added:	1.00	Units: uL
vm50ss_00176	Amount Added:	16.00	Units: uL

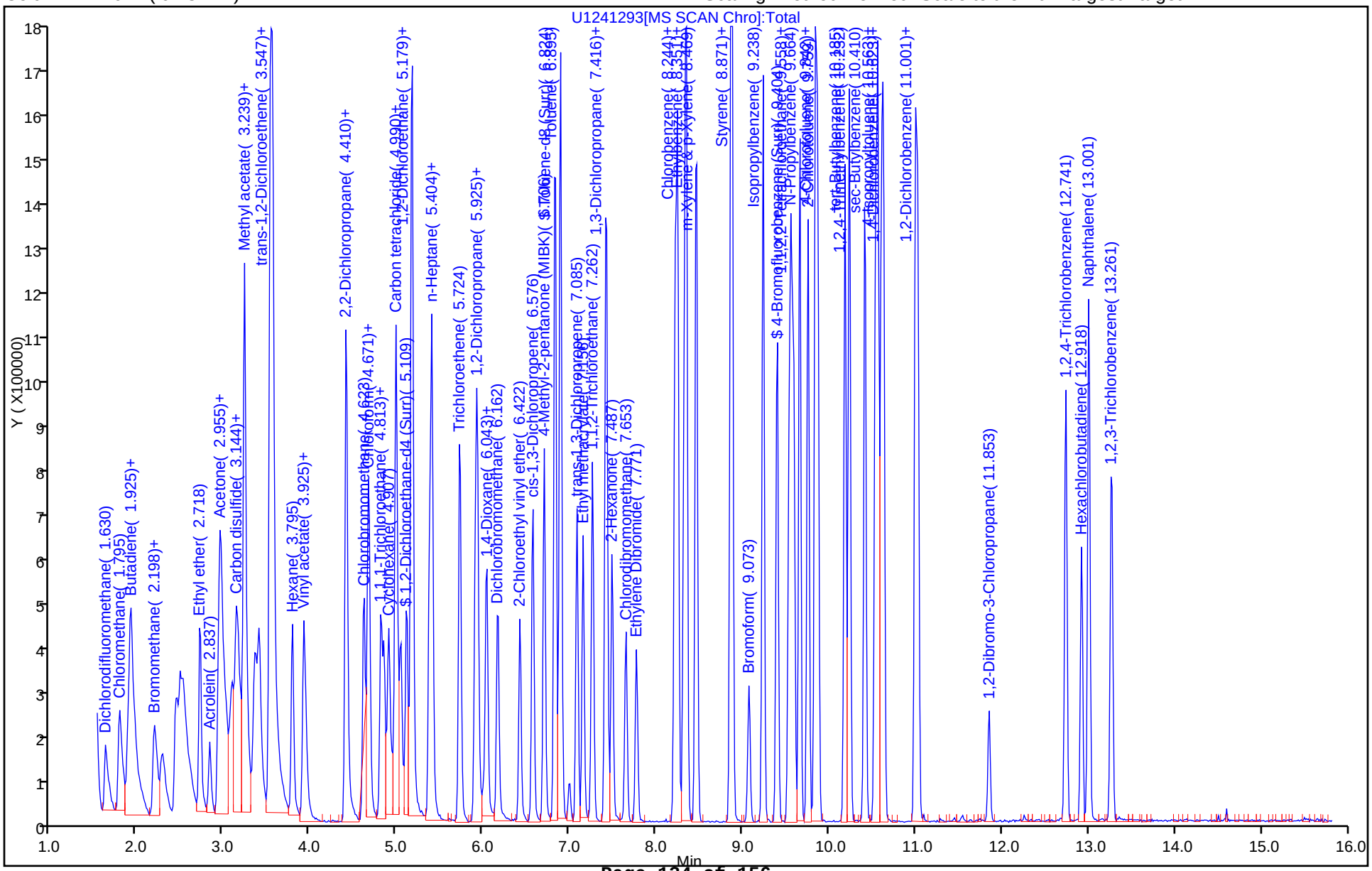
Report Date: 04-Nov-2014 20:31:45 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241293.D

Injection Date:	04-Nov-2014 18:48:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	LCS			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260_12	Limit Group:	MSV 624 ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Client Sample ID: Lab Sample ID: 190-5675-B-15 MS

Matrix: Water Lab File ID: U1241327.D

Analysis Method: 624 Date Collected: 10/29/2014 10:17

Sample wt/vol: 1(mL) Date Analyzed: 11/05/2014 16:28

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.: 154891 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	79.0		5.0	1.1
79-34-5	1,1,2,2-Tetrachloroethane	85.0		5.0	1.1
79-00-5	1,1,2-Trichloroethane	87.0		5.0	0.85
75-34-3	1,1-Dichloroethane	81.5		5.0	1.3
75-35-4	1,1-Dichloroethene	101		5.0	2.3
95-50-1	1,2-Dichlorobenzene	97.7		5.0	0.85
107-06-2	1,2-Dichloroethane	81.9		5.0	1.0
78-87-5	1,2-Dichloropropane	89.6		5.0	1.1
541-73-1	1,3-Dichlorobenzene	95.7		5.0	0.85
106-46-7	1,4-Dichlorobenzene	89.9		5.0	0.80
110-75-8	2-Chloroethyl vinyl ether	23.0		10	5.8
107-02-8	Acrolein	368		100	7.2
107-13-1	Acrylonitrile	1020		100	32
71-43-2	Benzene	97.2		5.0	1.2
75-25-2	Bromoform	91.7		5.0	2.8
74-83-9	Bromomethane	116		10	3.2
56-23-5	Carbon tetrachloride	99.0		5.0	0.85
108-90-7	Chlorobenzene	90.0		5.0	0.95
124-48-1	Chlorodibromomethane	89.2		5.0	2.2
75-00-3	Chloroethane	105		10	1.7
67-66-3	Chloroform	84.5		5.0	1.1
10061-01-5	cis-1,3-Dichloropropene	97.2		5.0	2.3
75-27-4	Dichlorobromomethane	90.0		5.0	0.75
100-41-4	Ethylbenzene	92.5		5.0	1.2
75-09-2	Methylene Chloride	87.7		10	1.4
127-18-4	Tetrachloroethene	103		5.0	1.0
108-88-3	Toluene	90.3		5.0	1.1
156-60-5	trans-1,2-Dichloroethene	97.4		2.5	1.3
10061-02-6	trans-1,3-Dichloropropene	104		5.0	2.8
79-01-6	Trichloroethene	106		5.0	0.75
75-69-4	Trichlorofluoromethane	118		10	2.5
75-01-4	Vinyl chloride	104		10	1.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Client Sample ID: Lab Sample ID: 190-5675-B-15 MS

Matrix: Water Lab File ID: U1241327.D

Analysis Method: 624 Date Collected: 10/29/2014 10:17

Sample wt/vol: 1(mL) Date Analyzed: 11/05/2014 16:28

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.: 154891 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-125
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120

TestAmerica Canton
Target Compound Quantitation Report

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241327.D
Lims ID: 190-5675-B-15 MS
Client ID:
Sample Type: MS
Inject. Date: 05-Nov-2014 16:28:30 ALS Bottle#: 37 Worklist Smp#: 38
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 240-0037024-038
Operator ID: 001904 Instrument ID: A3UX12

Method: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\8260_12.m
Limit Group: MSV 624 ICAL
Last Update: 05-Nov-2014 17:24:12 Calib Date: 18-Mar-2014 23:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Ncchrom\ChromData\A3UX12\20140318-29119.b\U1236349.D

Column 1 : DB-624 (0.18 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: laveyt Date: 05-Nov-2014 17:24:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.404	5.405	-0.001	99	1086253	20.0	20.0	
* 2 Chlorobenzene-d5	117	8.221	8.221	0.000	83	839346	20.0	20.0	
* 3 1,4-Dichlorobenzene-d4	152	10.599	10.599	0.000	91	416914	20.0	20.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.109	5.120	-0.011	91	367117	20.0	19.9	
$ 6 Toluene-d8 (Surr)	98	6.836	6.836	0.000	91	1269583	20.0	20.6	
$ 7 4-Bromofluorobenzene (Surr	95	9.404	9.404	0.000	96	448855	20.0	17.8	
9 Dichlorodifluoromethane	85	1.630	1.641	-0.011	99	367359	20.0	13.6	
10 Chloromethane	50	1.795	1.795	0.000	99	530146	20.0	19.4	
11 Vinyl chloride	62	1.902	1.902	0.000	97	577720	20.0	20.7	
13 Bromomethane	94	2.198	2.198	0.000	90	309974	20.0	23.2	
14 Chloroethane	64	2.292	2.280	0.012	99	350296	20.0	21.0	
16 Trichlorofluoromethane	101	2.505	2.505	0.000	97	553065	20.0	23.6	
18 Acrolein	56	2.849	2.837	0.012	97	182937	100.0	73.6	
20 1,1,2-Trichloro-1,2,2-trif	101	2.943	2.955	-0.012	55	326457	20.0	18.3	
22 1,1-Dichloroethene	61	2.955	2.955	0.000	96	728541	20.0	20.3	
21 Acetone	43	2.967	2.967	0.000	53	156206	40.0	28.0	
24 Carbon disulfide	76	3.144	3.156	-0.012	98	1498754	20.0	22.3	
28 Methylene Chloride	49	3.357	3.357	0.000	84	519796	20.0	17.5	
30 Acrylonitrile	53	3.535	3.535	0.000	100	1419529	200.0	203.8	
32 Methyl tert-butyl ether	73	3.570	3.558	0.012	93	1030547	20.0	20.0	
31 trans-1,2-Dichloroethene	61	3.570	3.570	0.000	94	511692	20.0	19.5	
33 Hexane	57	3.795	3.795	0.000	88	253035	20.0	14.4	
34 1,1-Dichloroethane	63	3.925	3.925	0.000	100	514293	20.0	16.3	
35 Vinyl acetate	43	3.949	3.949	0.000	96	161937	16.0	7.06	
39 cis-1,2-Dichloroethene	61	4.410	4.410	0.000	76	436785	20.0	18.0	
40 2-Butanone (MEK)	43	4.422	4.422	0.000	69	256223	40.0	27.5	
47 Chloroform	83	4.683	4.683	0.000	92	521804	20.0	16.9	
48 1,1,1-Trichloroethane	97	4.860	4.848	0.012	96	270335	20.0	15.8	
49 Cyclohexane	84	4.907	4.907	0.000	85	290501	20.0	12.3	
50 1,1-Dichloropropene	75	4.990	4.990	0.000	97	424663	20.0	19.3	
51 Carbon tetrachloride	117	5.002	5.002	0.000	93	252986	20.0	19.8	
53 Benzene	78	5.180	5.180	0.000	94	1407596	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
54 1,2-Dichloroethane	62	5.180	5.180	0.000	97	389270	20.0	16.4	
58 Trichloroethene	130	5.736	5.736	0.000	95	360522	20.0	21.2	
61 1,2-Dichloropropane	63	5.937	5.937	0.000	96	320156	20.0	17.9	
62 Methyl methacrylate	41	6.008	6.008	0.000	65	36282		2.55	
65 Dichlorobromomethane	83	6.174	6.173	0.001	99	374404	20.0	18.0	
67 2-Chloroethyl vinyl ether	63	6.422	6.422	0.000	88	57591	24.0	4.60	
68 cis-1,3-Dichloropropene	75	6.576	6.576	0.000	97	496509	20.0	19.4	
69 4-Methyl-2-pentanone (MIBK	43	6.706	6.706	0.000	92	534453	40.0	31.6	
70 Toluene	91	6.895	6.895	0.000	98	1447201	20.0	18.1	
71 trans-1,3-Dichloropropene	75	7.085	7.085	0.000	90	421632	20.0	20.8	
74 1,1,2-Trichloroethane	97	7.262	7.262	0.000	90	296649	20.0	17.4	
75 Tetrachloroethene	166	7.416	7.416	0.000	95	319100	20.0	20.5	
77 2-Hexanone	43	7.487	7.487	0.000	92	376466	40.0	29.8	
79 Chlorodibromomethane	129	7.653	7.653	0.000	90	248376	20.0	17.8	
80 Ethylene Dibromide	107	7.771	7.771	0.000	98	299407	20.0	19.2	
82 Chlorobenzene	112	8.244	8.244	0.000	96	913768	20.0	18.0	
83 1,1,1,2-Tetrachloroethane	131	8.327	8.327	0.000	95	268589	20.0	19.3	
84 Ethylbenzene	106	8.351	8.351	0.000	97	467938	20.0	18.5	
85 m-Xylene & p-Xylene	106	8.469	8.469	0.000	96	563545		17.7	
86 o-Xylene	106	8.871	8.871	0.000	96	583622		18.6	
87 Styrene	104	8.883	8.883	0.000	95	917765	20.0	15.7	
88 Bromoform	173	9.073	9.073	0.000	98	155670	20.0	18.3	
91 1,1,2,2-Tetrachloroethane	83	9.534	9.534	0.000	98	424474	20.0	17.0	
97 1,3,5-Trimethylbenzene	105	9.842	9.842	0.000	96	994547	20.0	16.4	
101 1,2,4-Trimethylbenzene	105	10.232	10.232	0.000	94	1066852	20.0	16.4	
103 1,3-Dichlorobenzene	146	10.540	10.540	0.000	98	693875	20.0	19.1	
105 1,4-Dichlorobenzene	146	10.635	10.635	0.001	97	727132	20.0	18.0	
109 1,2-Dichlorobenzene	146	11.025	11.025	0.000	98	713428	20.0	19.5	
114 Naphthalene	128	13.001	13.001	0.000	96	1088998	20.0	16.1	
S 124 1,2-Dichloroethene, Total	96				0			37.5	
S 126 Xylenes, Total	106				0		40.0	36.3	

Reagents:

vm100is_stk_00020	Amount Added:	1.00	Units: uL
vm50ss_00176	Amount Added:	16.00	Units: uL
VMFASGW_00063	Amount Added:	16.00	Units: uL
VMFASAW_00055	Amount Added:	16.00	Units: uL
VMFASPW_00060	Amount Added:	16.00	Units: uL

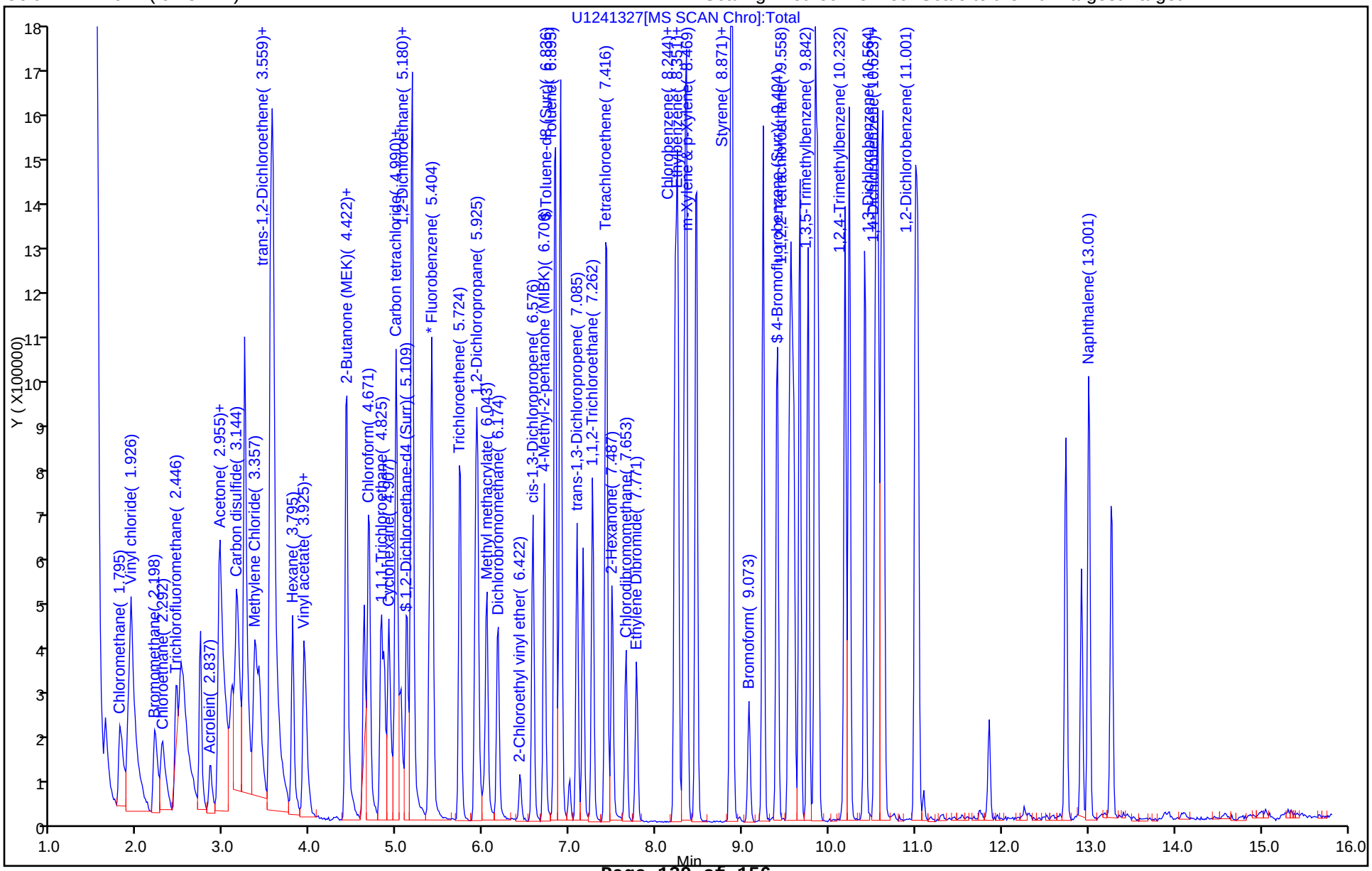
Report Date: 05-Nov-2014 17:24:39 Chrom Revision: 2.2 07-Oct-2014 12:16:06

TestAmerica Canton

Data File: \\Ncchrom\ChromData\A3UX12\20141104-37024.b\U1241327.D

Injection Date:	05-Nov-2014 16:28:30	Instrument ID:	A3UX12	Operator ID:	001904
Lims ID:	190-5675-B-15 MS			Worklist Smp#:	38
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	37
Method:	8260_12	Limit Group:	MSV 624 ICAL		

Column: DB-624 (0.18 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 2



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Instrument ID: A3UX12 Start Date: 03/18/2014 17:23

Analysis Batch Number: 123038 End Date: 03/19/2014 16:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-123038/1		03/18/2014 17:23	1	BFB2547.D	DB-624 0.18(mm)
STD8260 240-123038/3 IC		03/18/2014 17:53	1	U1236334.D	DB-624 0.18(mm)
STD8260 240-123038/4 IC		03/18/2014 18:18	1	U1236335.D	DB-624 0.18(mm)
STD8260 240-123038/5 ICIS		03/18/2014 18:42	1	U1236336.D	DB-624 0.18(mm)
STD8260 240-123038/6 IC		03/18/2014 19:07	1	U1236337.D	DB-624 0.18(mm)
STD8260 240-123038/7 IC		03/18/2014 19:31	1	U1236338.D	DB-624 0.18(mm)
STD8260 240-123038/8 IC		03/18/2014 19:56	1	U1236339.D	DB-624 0.18(mm)
STD 240-123038/13 IC		03/18/2014 21:56	1		DB-624 0.18(mm)
STD 240-123038/14 IC		03/18/2014 22:21	1		DB-624 0.18(mm)
STD 240-123038/15 IC		03/18/2014 22:44	1		DB-624 0.18(mm)
STD 240-123038/16 IC		03/18/2014 23:09	1		DB-624 0.18(mm)
STD 240-123038/17 IC		03/18/2014 23:33	1		DB-624 0.18(mm)
STD 240-123038/18 IC		03/18/2014 23:58	1		DB-624 0.18(mm)
ZZZZZ		03/19/2014 01:12	1		DB-624 0.18(mm)
ZZZZZ		03/19/2014 01:36	1		DB-624 0.18(mm)
ZZZZZ		03/19/2014 14:25	400		DB-624 0.18(mm)
ZZZZZ		03/19/2014 14:49	1		DB-624 0.18(mm)
ZZZZZ		03/19/2014 15:14	1		DB-624 0.18(mm)
ZZZZZ		03/19/2014 15:38	1		DB-624 0.18(mm)
ZZZZZ		03/19/2014 16:03	1		DB-624 0.18(mm)
ZZZZZ		03/19/2014 16:27	1		DB-624 0.18(mm)
ZZZZZ		03/19/2014 16:48	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Instrument ID: A3UX12 Start Date: 11/04/2014 18:01

Analysis Batch Number: 154891 End Date: 11/05/2014 16:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-154891/2		11/04/2014 18:01	1	BFB2777.D	DB-624 0.18(mm)
STD8260 240-154891/3 CCVIS		11/04/2014 18:25	1	U1241292.D	DB-624 0.18(mm)
LCS 240-154891/6		11/04/2014 18:48	1	U1241293.D	DB-624 0.18(mm)
CCV 240-154891/4		11/04/2014 19:12	1	U1241294.D	DB-624 0.18(mm)
MB 240-154891/5		11/04/2014 19:34	1	U1241295.D	DB-624 0.18(mm)
240-43797-1	DSP-1-103014	11/05/2014 00:34	1	U1241308.D	DB-624 0.18(mm)
ZZZZZ		11/05/2014 00:58	2		DB-624 0.18(mm)
ZZZZZ		11/05/2014 01:21	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 01:45	10		DB-624 0.18(mm)
ZZZZZ		11/05/2014 02:08	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 02:31	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 02:55	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 03:18	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 03:42	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 04:05	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 04:29	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 04:53	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 05:16	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 05:39	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 06:03	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 06:26	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 15:17	1		DB-624 0.18(mm)
ZZZZZ		11/05/2014 15:41	1		DB-624 0.18(mm)
190-5675-B-15 MS		11/05/2014 16:28	1	U1241327.D	DB-624 0.18(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-43797-1

SDG No.:

Project: Middle River Complex, MD

Client Sample ID	Lab Sample ID
DSP-1-103014	240-43797-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DSP-1-103014 Lab Sample ID: 240-43797-1

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG ID.:

Matrix: Water Date Sampled: 10/30/2014 11:25

Reporting Basis: WET Date Received: 10/31/2014 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	pH	7.28	0.100	0.100	SU		HF	1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Analyst: LCN Batch Start Date: 10/31/2014

Reporting Units: SU Analytical Batch No.: 154319

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
17	CCV	11:47	pH	7.020	7.00	100	99-101		WCPH7_00042
24	CCV	14:01	pH	6.990	7.00	100	99-101		WCPH7_00042
28	CCV	14:01	pH	6.990	7.00	100	99-101		WCPH7_00042

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

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 154319 Date: 10/31/2014 14:01								
4500 H+ B-2000	DSP-1-103014	240-43797-1	pH	7.28	SU			
4500 H+ B-2000	DSP-1-103014	240-43797-1 DU	pH	7.270	SU	0.1	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 154319	Date: 10/31/2014 11:47										
						LCS Source: WCPHLCS_00008					
4500 H+ B-2000	LCS 240-154319/18	pH	6.480		SU	6.47	100	97-103			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-43797-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-43797-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 10/31/2014 11:47 End Date: 10/31/2014 14:47

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-154319/17	1		11:47	X																			
LCS 240-154319/18	1	T	11:47	X																			
CCV 240-154319/24	1		14:01	X																			
240-43797-1 DU	1	T	14:01	X																			
240-43797-1	1	T	14:01	X																			
CCV 240-154319/28	1		14:01	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Batch Number: 154319 Batch Start Date: 10/31/14 11:47 Batch Analyst: Nolle, Laura C

Batch Method: 4500 H+ B-2000 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-154319/17		4500 H+ B-2000		25 mL	7.02 SU	18.8 Celsius			pH = Read 1
LCS 240-154319/18		4500 H+ B-2000		25 mL	6.48 SU	19.1 Celsius			pH = Read 1
CCV 240-154319/24		4500 H+ B-2000		25 mL	6.99 SU	17.2 Celsius			pH = Read 1
240-43797-D-1 DU	DSP-1-103014	4500 H+ B-2000	T	25 mL	7.23 SU	16.1 Celsius	7.27 SU	15.6 Celsius	Read 2 Pass
240-43797-D-1	DSP-1-103014	4500 H+ B-2000	T	25 mL	7.26 SU	16.2 Celsius	7.28 SU	16 Celsius	Read 2 Pass
CCV 240-154319/28		4500 H+ B-2000		25 mL	6.99 SU	19.1 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00042	WCPHLCS 00008				
CCV 240-154319/17		4500 H+ B-2000		25 mL					
LCS 240-154319/18		4500 H+ B-2000			25 mL				
CCV 240-154319/24		4500 H+ B-2000		25 mL					
240-43797-D-1 DU	DSP-1-103014	4500 H+ B-2000	T						
240-43797-D-1	DSP-1-103014	4500 H+ B-2000	T						
CCV 240-154319/28		4500 H+ B-2000		25 mL					

Batch Notes	
pH Buffer 1 ID	2-1497428
pH Buffer 2 ID	4-1579304
pH Buffer 3 ID	7-1126157
pH Buffer 4 ID	10-1579307
pH Buffer 5 ID	12-1397709
Calibration Date and Time	10/31/14 1149
Electronic Slope	98.6
Instrument ID	Randolph

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-43797-1

SDG No.:

Batch Number: 154319 Batch Start Date: 10/31/14 11:47 Batch Analyst: Nolle, Laura C

Batch Method: 4500 H+ B-2000 Batch End Date:

Basis	Basis Description
T	Total/NA

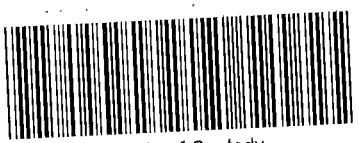
The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-43797 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

Chain of Custody Record

2.8

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Stu Cameron	Lab PM: John McFadden	Carrier Tracking No(s):	COC No: 180-19478-4921.2
Client Contact: Mr. Stuart Cameron	Phone: (703) 342-8389	E-Mail: John.McFadden@testamericainc.com		Page: Page [redacted] 1 of 1
Company: Tetra Tech, Inc.				Job #: 112IC04769

Address: 20251 Century Blvd Suite 200	Due Date Requested:
City: Germantown	TAT Requested (days): 5day
State, Zip: MD, 20874	PO #:
Phone: (703) 342-8389	WO #:
Email: Stuart.Cameron@TetraTech.com	Project #: 112IC04769
Project Name: MRC Block E MPE System O&M	SSOW#:
Site: Middle River Complex, MD	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs - TCL	Metals (Cd,Cr,Cu,Pb,Hg, Ni, Ag, Zn)	VOCs - PP (TTO, volatile portion)	SVOCs - PP (With TCDD screen) (TTO, non-volatile)	Pesticides - PP (TTO, non-volatile)	PCBs - PP (TTO, non volatile)	TPH (1664, as SGT-HEM)	pH, BOD, TSS (general chemistry)	COD, TKN, Total P (general chemistry)	Cyanides	PH	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	D	N	N	N	N	S	N	S	S	N	X	
DSP-1-103014	10/30/14	1125	G	W	N	N			3								1	4	
#																			

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Baltimore



180325

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological	[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Stu Cameron	10-30-14 / 1200	Tetra Tech		10/30/14 / 1200	TestAmer.ca
Relinquished by:	10/30/14 / 1625	TestAmerica		10-31-14 9:30	TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 43197

Client Tetra Tech Site Name MRC Block D

Cooler unpacked by: Jackson

Cooler Received on 10-31-14 Opened on 10-31-14

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam (Plastic Bag) None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +2 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C	☐ See Multiple Cooler Form
IR GUN# 4	(CF -2 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C	
IR GUN# 5	(CF 0 °C)	Observed Cooler Temp. ____ °C	Corrected Cooler Temp. ____ °C	
IR GUN# 8	(CF 0 °C)	Observed Cooler Temp. 2.8 °C	Corrected Cooler Temp. 2.8 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? (Yes) No
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? Yes (No) NA pH Strip Lot# HC412469
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? Yes (No)

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: DT

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ 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 the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

12/30/2014 SAMPLING EVENT

ANALYTICAL REPORT

Job Number: 240-45978-1

Job Description: MRC Block E MPE System O&M

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
1/9/2015 5:08 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
01/09/2015

cc: Samantha Brenner
Ms. Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MRC Block E MPE System O&M

Report Number: 240-45978-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 12/31/2014 11:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3º C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample DSP-2-123014 (GRAB) (240-45978-1) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The samples were analyzed on 12/31/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SEMIVOLATILE ORGANIC COMPOUNDS (GCMS)

Sample DSP-2-123014 (COMP) (240-45978-2) was analyzed for semivolatile organic compounds (GCMS) in accordance with EPA Method 625. The samples were prepared on 01/02/2015 and analyzed on 01/05/2015.

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.

The continuing calibration verification (CCV) associated with analytical batch 163142 recovered above the upper control limit for 4-nitrophenol. The sample associated with this CCV, DSP-2-123014 (COMP) (240-45978-2), was non-detect for this analyte; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

DIOXIN SCREEN

Sample DSP-2-123014 (COMP) (240-45978-2) was analyzed for Dioxin Screen in accordance with EPA Method 625 Dioxin Screen. The samples were prepared on 01/02/2015 and analyzed on 01/05/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

POLYCHLORINATED BIPHENYLS (PCBS)

Sample DSP-2-123014 (COMP) (240-45978-2) was analyzed for polychlorinated biphenyls (PCBs) in accordance with EPA Method 608. The samples were prepared and analyzed on 01/05/2015.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are

diluted out and no corrective action is required. All of the samples in this data set analyzed for PCBs were subjected to the sulfuric acid cleanup procedure before instrumental analysis, per EPA Method 3665A.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHLORINATED PESTICIDES
Sample DSP-2-123014 (COMP) (240-45978-2) was analyzed for chlorinated pesticides in accordance with EPA Method 608. The samples were prepared on 01/05/2015 and analyzed on 01/06/2015.

Surrogates are added during the extraction process prior to dilution. When the sample dilution is 5X or greater, surrogate recoveries are diluted out and no corrective action is required.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL RECOVERABLE METALS (ICP)
Sample DSP-2-123014 (COMP) (240-45978-2) was analyzed for total recoverable metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 01/02/2015 and analyzed on 01/06/2015.

Silver was detected in method blank MB 240-163105/1-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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL MERCURY
Sample DSP-2-123014 (COMP) (240-45978-2) was analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 01/02/2015 and analyzed on 01/06/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

N-HEXANE EXTRACTABLE MATERIAL
Sample DSP-2-123014 (GRAB) (240-45978-1) was analyzed for n-hexane extractable material in accordance with EPA Method 1664A. The samples were prepared and analyzed on 01/08/2015.

Analysis for Hexane Extractable Material (HEM) was performed for the following sample: DSP-2-123014 (GRAB) (240-45978-1). Since the HEM result was below the reporting limit (RL), the result for Silica Gel Treated - Hexane Extractable Material (SGT-HEM) was reported as a non-detect. All HEM quality control criteria were met.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL SUSPENDED SOLIDS
Sample DSP-2-123014 (GRAB) (240-45978-1) was analyzed for total suspended solids in accordance with SM 2540D. The samples were analyzed on 01/05/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL CYANIDE
Sample DSP-2-123014 (GRAB) (240-45978-1) was analyzed for total cyanide in accordance with SM 4500_CN-E. The samples were prepared and analyzed on 01/02/2015.

Cyanide, Total was detected in method blank MB 240-163068/1-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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL PHOSPHORUS
Sample DSP-2-123014 (GRAB) (240-45978-1) was analyzed for total phosphorus in accordance with SM 4500 P E. The samples were prepared and analyzed on 01/06/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

BIOCHEMICAL OXYGEN DEMAND
Sample DSP-2-123014 (GRAB) (240-45978-1) was analyzed for Biochemical oxygen demand in accordance with SM 5210B. The samples were analyzed on 12/31/2014.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

CHEMICAL OXYGEN DEMAND

Sample DSP-2-123014 (GRAB) (240-45978-1) was analyzed for chemical oxygen demand in accordance with SM 5220D. The samples were analyzed on 01/07/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH

Sample DSP-2-123014 (GRAB) (240-45978-1) was analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 12/31/2014.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL KJELDAHL NITROGEN

Sample DSP-2-123014 (GRAB) (240-45978-1) was analyzed for total kjeldahl nitrogen in accordance with SM 4500 NH3 E. The samples were prepared on 01/06/2015 and analyzed on 01/07/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A3UX9 Analysis Batch Number: 162216

Lab Sample ID: STD8260 240-162216/3 IC Client Sample ID:

Date Analyzed: 12/22/14 18:15 Lab File ID: UX947740.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.22	Split Peak	laveyt	12/22/14 20:08

Lab Sample ID: STD8260 240-162216/4 IC Client Sample ID:

Date Analyzed: 12/22/14 18:38 Lab File ID: UX947741.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.22	Split Peak	laveyt	12/22/14 20:08

Lab Sample ID: STD8260 240-162216/7 IC Client Sample ID:

Date Analyzed: 12/22/14 19:47 Lab File ID: UX947744.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Cyclohexane	5.06	Split Peak	laveyt	12/22/14 20:27

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A3UX9 Analysis Batch Number: 163033

Lab Sample ID: CCVIS 240-163033/3 Client Sample ID:

Date Analyzed: 12/31/14 15:59 Lab File ID: UX947869.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.22	Split Peak	laveyt	12/31/14 16:30

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 161586

Lab Sample ID: STD5 240-161586/2 IC Client Sample ID:

Date Analyzed: 12/18/14 10:03 Lab File ID: 41218002.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.93	Poor Chromatography	ulmanm	12/18/14 10:50
Benzoic acid	7.07	Poor Chromatography	ulmanm	12/18/14 10:50

Lab Sample ID: STD4 240-161586/3 IC Client Sample ID:

Date Analyzed: 12/18/14 10:27 Lab File ID: 41218003.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.92	Poor Chromatography	ulmanm	12/18/14 10:53
N-Nitrosodimethylamine	3.45	Poor Chromatography	ulmanm	12/18/14 10:53
Benzoic acid	7.05	Poor Chromatography	ulmanm	12/18/14 10:53

Lab Sample ID: STD3 240-161586/4 IC Client Sample ID:

Date Analyzed: 12/18/14 10:52 Lab File ID: 41218004.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.92	Poor Chromatography	ulmanm	12/18/14 11:18

Lab Sample ID: STD2 240-161586/5 IC Client Sample ID:

Date Analyzed: 12/18/14 11:17 Lab File ID: 41218005.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.93	Poor Chromatography	ulmanm	12/18/14 12:19
N-Nitrosodimethylamine	3.45	Poor Chromatography	ulmanm	12/18/14 12:19
Pyridine	3.51	Poor Chromatography	ulmanm	12/18/14 12:19
Benzoic acid	7.04	Poor Chromatography	ulmanm	12/18/14 12:19
4,6-Dinitro-2-methylphenol	9.34	Poor Chromatography	ulmanm	12/18/14 12:19
Benzo[g,h,i]perylene	16.61	Poor Chromatography	ulmanm	12/18/14 12:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 161586

Lab Sample ID: STD1 240-161586/6 IC Client Sample ID:

Date Analyzed: 12/18/14 11:42 Lab File ID: 41218006.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzo[k]fluoranthene	13.63	Poor Chromatography	ulmanm	12/18/14 12:20
Indeno[1,2,3-cd]pyrene	16.02	Poor Chromatography	ulmanm	12/18/14 12:20
Dibenz(a,h)anthracene	16.04	Poor Chromatography	ulmanm	12/18/14 12:20
Benzo[g,h,i]perylene	16.60	Poor Chromatography	ulmanm	12/18/14 12:20

Lab Sample ID: STD9 240-161586/7 IC Client Sample ID:

Date Analyzed: 12/18/14 12:07 Lab File ID: 41218007.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.92	Poor Chromatography	ulmanm	12/18/14 12:35
Benzoic acid	7.12	Poor Chromatography	ulmanm	12/18/14 12:35

Lab Sample ID: STD8 240-161586/8 IC Client Sample ID:

Date Analyzed: 12/18/14 12:32 Lab File ID: 41218008.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.93	Poor Chromatography	ulmanm	12/18/14 13:02

Lab Sample ID: STD7 240-161586/9 IC Client Sample ID:

Date Analyzed: 12/18/14 12:56 Lab File ID: 41218009.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.93	Poor Chromatography	ulmanm	12/18/14 13:21
Pyridine	3.49	Poor Chromatography	ulmanm	12/18/14 13:21

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 161586

Lab Sample ID: STD6 240-161586/10 ICIS Client Sample ID:

Date Analyzed: 12/18/14 13:21 Lab File ID: 41218010.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.92	Poor Chromatography	ulmanm	12/18/14 13:46

Lab Sample ID: ICV 240-161586/11 Client Sample ID:

Date Analyzed: 12/18/14 13:46 Lab File ID: 41218011.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,4-Dioxane	2.92	Poor Chromatography	ulmanm	12/18/14 14:19

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A4HP9 Analysis Batch Number: 163142

Lab Sample ID: CCV 240-163142/2 CCVIS Client Sample ID:

Date Analyzed: 01/05/15 07:53 Lab File ID: 50105002.D GC Column: RXI-5SILMS ID: 0.45(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Benzoic acid	6.97	Poor Chromatography	ulmanm	01/05/15 08:33

PESTICIDES/PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP11 Analysis Batch Number: 133461

Lab Sample ID: STD0025 240-133461/10 IC Client Sample ID:

Date Analyzed: 06/05/14 14:08 Lab File ID: P1100010.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	2.97	Baseline Event	hassl	06/06/14 08:56
PCB-1242 Peak 2	3.39	Baseline Event	hassl	06/06/14 08:56
PCB-1242 Peak 3	3.84	Baseline Event	hassl	06/06/14 08:56
PCB-1242 Peak 4	3.97	Baseline Event	hassl	06/06/14 08:56
PCB-1242 Peak 5	4.17	Baseline Event	hassl	06/06/14 08:56

Lab Sample ID: STD005 240-133461/11 IC Client Sample ID:

Date Analyzed: 06/05/14 14:22 Lab File ID: P1100011.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	2.97	Split Peak	hassl	06/06/14 08:57
PCB-1242 Peak 2	3.38	Split Peak	hassl	06/06/14 08:57
PCB-1242 Peak 3	3.84	Split Peak	hassl	06/06/14 08:57
PCB-1242 Peak 4	3.97	Split Peak	hassl	06/06/14 08:57
PCB-1242 Peak 5	4.17	Baseline Event	hassl	06/06/14 08:57

Lab Sample ID: STD005 240-133461/18 IC Client Sample ID:

Date Analyzed: 06/05/14 16:03 Lab File ID: P1100018.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 1	3.83	Baseline Event	hassl	06/06/14 08:58
PCB-1248 Peak 2	4.17	Baseline Event	hassl	06/06/14 08:58
PCB-1248 Peak 3	4.44	Baseline Event	hassl	06/06/14 08:58
PCB-1248 Peak 4	4.91	Baseline Event	hassl	06/06/14 08:58
PCB-1248 Peak 5	5.61	Baseline Event	hassl	06/06/14 08:58

PESTICIDES/PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP11 Analysis Batch Number: 133461

Lab Sample ID: STD1 240-133461/22 IC Client Sample ID:

Date Analyzed: 06/05/14 16:59 Lab File ID: P1100022.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1248 Peak 1	3.84	Baseline Event	hassl	06/06/14 08:59
PCB-1248 Peak 2	4.17	Baseline Event	hassl	06/06/14 08:59
PCB-1248 Peak 3	4.44	Baseline Event	hassl	06/06/14 08:59
PCB-1248 Peak 4	4.91	Baseline Event	hassl	06/06/14 08:59
PCB-1248 Peak 5	5.61	Baseline Event	hassl	06/06/14 08:59

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP15 Analysis Batch Number: 163079

Lab Sample ID: STD 240-163079/5 IC Client Sample ID:

Date Analyzed: 01/02/15 12:52 Lab File ID: F0010205.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	01/05/15 11:33
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	01/05/15 11:33
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	01/05/15 11:33
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	01/05/15 11:33
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	01/05/15 11:33

Lab Sample ID: STD 240-163079/5 IC Client Sample ID:

Date Analyzed: 01/02/15 12:52 Lab File ID: F0010205.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.93	Baseline Event	matthewsb	01/05/15 11:33
Toxaphene Peak 2	11.10	Baseline Event	matthewsb	01/05/15 11:33
Toxaphene Peak 3	11.53	Baseline Event	matthewsb	01/05/15 11:33
Toxaphene Peak 4	12.27	Baseline Event	matthewsb	01/05/15 11:33
Toxaphene Peak 5	12.36	Baseline Event	matthewsb	01/05/15 11:33

Lab Sample ID: STD 240-163079/6 IC Client Sample ID:

Date Analyzed: 01/02/15 13:14 Lab File ID: F0010206.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 5	10.93	Baseline Event	matthewsb	01/05/15 11:34

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP15 Analysis Batch Number: 163079

Lab Sample ID: STD 240-163079/6 IC Client Sample ID:

Date Analyzed: 01/02/15 13:14 Lab File ID: F0010206.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.93	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 2	11.10	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 3	11.53	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 4	12.27	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 5	12.36	Baseline Event	matthewsb	01/05/15 11:34

Lab Sample ID: STD 240-163079/7 ICRT Client Sample ID:

Date Analyzed: 01/02/15 13:36 Lab File ID: F0010207.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 5	10.93	Baseline Event	matthewsb	01/05/15 11:34

Lab Sample ID: STD 240-163079/7 ICRT Client Sample ID:

Date Analyzed: 01/02/15 13:36 Lab File ID: F0010207.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.93	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 2	11.10	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 3	11.53	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 4	12.27	Baseline Event	matthewsb	01/05/15 11:34
Toxaphene Peak 5	12.36	Baseline Event	matthewsb	01/05/15 11:34

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP15 Analysis Batch Number: 163079

Lab Sample ID: STD 240-163079/8 IC Client Sample ID:

Date Analyzed: 01/02/15 13:58 Lab File ID: F0010208.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	01/05/15 11:35

Lab Sample ID: STD 240-163079/8 IC Client Sample ID:

Date Analyzed: 01/02/15 13:58 Lab File ID: F0010208.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.93	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 2	11.10	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 3	11.53	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 4	12.27	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 5	12.36	Baseline Event	matthewsb	01/05/15 11:35

Lab Sample ID: STD 240-163079/9 IC Client Sample ID:

Date Analyzed: 01/02/15 14:19 Lab File ID: F0010209.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 5	10.92	Baseline Event	matthewsb	01/05/15 11:35

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP15 Analysis Batch Number: 163079

Lab Sample ID: STD 240-163079/9 IC Client Sample ID:

Date Analyzed: 01/02/15 14:19 Lab File ID: F0010209.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.93	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 2	11.10	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 3	11.53	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 4	12.27	Baseline Event	matthewsb	01/05/15 11:35
Toxaphene Peak 5	12.36	Baseline Event	matthewsb	01/05/15 11:35

GC SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP15 Analysis Batch Number: 163275

Lab Sample ID: CCV 240-163275/6 CCVRT Client Sample ID:

Date Analyzed: 01/06/15 10:55 Lab File ID: F0010606.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	01/06/15 12:14
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	01/06/15 12:14
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	01/06/15 12:14
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	01/06/15 12:14
Toxaphene Peak 5	10.93	Baseline Event	matthewsb	01/06/15 12:14

Lab Sample ID: CCV 240-163275/6 CCVRT Client Sample ID:

Date Analyzed: 01/06/15 10:55 Lab File ID: F0010606.D GC Column: CLP-2 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	10.93	Baseline Event	matthewsb	01/06/15 12:14
Toxaphene Peak 2	11.11	Baseline Event	matthewsb	01/06/15 12:14
Toxaphene Peak 3	11.53	Baseline Event	matthewsb	01/06/15 12:14
Toxaphene Peak 4	12.27	Baseline Event	matthewsb	01/06/15 12:14
Toxaphene Peak 5	12.36	Baseline Event	matthewsb	01/06/15 12:14

Lab Sample ID: CCV 240-163275/22 Client Sample ID:

Date Analyzed: 01/06/15 16:43 Lab File ID: F0010622.D GC Column: CLP-1 ID: 0.53(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Toxaphene Peak 1	9.71	Baseline Event	matthewsb	01/07/15 06:38
Toxaphene Peak 2	10.17	Baseline Event	matthewsb	01/07/15 06:38
Toxaphene Peak 3	10.48	Baseline Event	matthewsb	01/07/15 06:38
Toxaphene Peak 4	10.82	Baseline Event	matthewsb	01/07/15 06:38
Toxaphene Peak 5	10.93	Baseline Event	matthewsb	01/07/15 06:38

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-45978-1	DSP-2-123014 (GRAB)	Water	12/30/2014 1040	12/31/2014 1100
240-45978-2	DSP-2-123014 (COMP)	Water	12/30/2014 1040	12/31/2014 1100

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-45978-1	**DSP-2-123014 (GRAB)**					
Ethylbenzene		0.30	J	1.0	ug/L	624
Toluene		0.46	J	1.0	ug/L	624
pH		7.32	HF	0.100	SU	4500 H+ B-2000
Chemical Oxygen Demand		5.2	J	10	mg/L	5220D-1997
240-45978-2	**DSP-2-123014 (COMP)**					
2,3,7,8-TCDD		NEG			ng/uL	625
Bis(2-ethylhexyl) phthalate		1.8	J	10	ug/L	625
Naphthalene		0.14	J	10	ug/L	625
Total Recoverable						
Silver		1.2	J B	10	ug/L	6010C
Nickel		37	J	40	ug/L	6010C
Zinc		93		50	ug/L	6010C

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
Dioxin Screen (GC/MS SIM)	TAL CAN	40CFR136A 625	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CAN		SW846 3510C
Semivolatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 625	
Liquid-Liquid Extraction	TAL CAN		40CFR136A 625
Organochlorine Pesticides in Water	TAL CAN	40CFR136A 608	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CAN		40CFR136A 608
Polychlorinated Biphenyls (PCBs) (GC)	TAL CAN	40CFR136A 608	
Liquid-Liquid Extraction (Separatory Funnel)	TAL CAN		40CFR136A 608
Metals (ICP)	TAL CAN	SW846 6010C	
Preparation, Total Recoverable or Dissolved Metals	TAL CAN		SW846 3005A
Mercury (CVAA)	TAL CAN	SW846 7470A	
Preparation, Mercury	TAL CAN		SW846 7470A
HEM and SGT-HEM	TAL CAN	1664A 1664A	
HEM and SGT-HEM (Aqueous)	TAL CAN		1664A 1664A
pH	TAL CAN	SM 4500 H+ B-2000	
BOD, 5-Day	TAL CAN	SM 5210B-2001	
Chemical Oxygen Demand	TAL CAN	SM 5220D-1997	
Solids, Total Suspended (TSS)	TAL CAN	SM SM 2540D	
Cyanide, Total	TAL CAN	SM SM 4500 CN E	
Distillation, Cyanide	TAL CAN		Distill/CN
Phosphorus	TAL CAN	SM SM4500 P E-1999	
Phosphorus, Total	TAL CAN		MCAWW 365.2/365.3/365
Kjeldahl Nitrogen, Total	TAL CAN	SM SM4500_NH3_C	
Preparation, Nitrogen -Total Kjeldahl	TAL CAN		SM SM4500Norg_C

Lab References:

TAL CAN = TestAmerica Canton

Method References:

1664A = EPA-821-98-002

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

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

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
40CFR136A 625	Ulman, Mark	MRU
40CFR136A 608	Kuster, Rhonda	RSK
40CFR136A 608	Matthews, Brandon	BPM
SW846 6010C	Counts, Karen	KLC
SW846 7470A	Martin, Aaron	AMM2
1664A 1664A	Eikelberry, Nicholas	NJE
SM 4500 H+ B-2000	Nolle, Laura C	LCN
SM 5210B-2001	Eikelberry, Nicholas	NJE
SM 5220D-1997	Harshman, Tom	TPH
SM SM 2540D	Nolle, Laura C	LCN
SM SM 4500 CN E	Matheny, Sarah	SEM
SM SM4500 P E-1999	Harshman, Tom	TPH
SM SM4500_NH3_C	Kuhle, Julie	JAK

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Client Sample ID: **DSP-2-123014 (GRAB)**

Lab Sample ID: 240-45978-1 Date Sampled: 12/30/2014 1040
Client Matrix: Water Date Received: 12/31/2014 1100

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-163033	Instrument ID:	A3UX9
	N/A	Prep Batch:	N/A	Lab File ID:	UX947873.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/31/2014 1728			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.17	U	0.17	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2-Chloroethyl vinyl ether	1.2	U	1.2	2.0
Acrolein	1.4	U	1.4	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.24	U	0.24	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	2.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	2.0
Chloroform	0.21	U	0.21	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.15	U	0.15	1.0
Ethylbenzene	0.30	J	0.23	1.0
Methylene Chloride	0.28	U	0.28	2.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.46	J	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106		80 - 125
4-Bromofluorobenzene (Surr)	98		80 - 120

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Client Sample ID: **DSP-2-123014 (COMP)**

Lab Sample ID: 240-45978-2 Date Sampled: 12/30/2014 1040
Client Matrix: Water Date Received: 12/31/2014 1100

625 Semivolatile Organic Compounds (GC/MS)

Analysis Method:	625	Analysis Batch:	240-163142	Instrument ID:	A4HP9
Prep Method:	625	Prep Batch:	240-163064	Lab File ID:	50105006.D
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Analysis Date:	01/05/2015 0943			Final Weight/Volume:	2 mL
Prep Date:	01/02/2015 0901			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,2,4-Trichlorobenzene	0.28	U	0.28	10
2,4,6-Trichlorophenol	0.80	U	0.80	10
2,4-Dichlorophenol	0.80	U	0.80	10
2,4-Dimethylphenol	0.80	U	0.80	10
2,4-Dinitrotoluene	0.27	U	0.27	10
2,6-Dinitrotoluene	0.80	U	0.80	10
2-Chloronaphthalene	0.10	U	0.10	10
2-Chlorophenol	0.29	U	0.29	10
2-Nitrophenol	0.28	U	0.28	10
3,3'-Dichlorobenzidine	0.37	U	0.37	10
4,6-Dinitro-2-methylphenol	2.4	U	2.4	50
4-Bromophenyl phenyl ether	0.80	U	0.80	10
4-Chlorophenyl phenyl ether	0.30	U	0.30	10
4-Nitrophenol	2.4	U	2.4	50
Acenaphthene	0.10	U	0.10	10
Acenaphthylene	0.10	U	0.10	10
Anthracene	0.10	U	0.10	10
Benzidine	2.4	U	2.4	5.0
Benzo[a]anthracene	0.10	U	0.10	10
Benzo[a]pyrene	0.10	U	0.10	10
Benzo[b]fluoranthene	0.10	U	0.10	10
Benzo[g,h,i]perylene	0.10	U	0.10	10
Benzo[k]fluoranthene	0.10	U	0.10	10
Bis(2-chloroethoxy)methane	0.32	U	0.32	10
Bis(2-chloroethyl)ether	0.10	U	0.10	10
Bis(2-ethylhexyl) phthalate	1.8	J	1.7	10
2,2'-oxybis[1-chloropropane]	0.40	U	0.40	10
Butyl benzyl phthalate	0.80	U	0.80	10
Chrysene	0.10	U	0.10	10
Dibenz(a,h)anthracene	0.10	U	0.10	10
Diethyl phthalate	0.60	U	0.60	10
Dimethyl phthalate	0.29	U	0.29	10
Di-n-butyl phthalate	1.7	U	1.7	10
Di-n-octyl phthalate	0.80	U	0.80	10
Fluoranthene	0.10	U	0.10	10
Fluorene	0.10	U	0.10	10
Hexachlorobenzene	0.10	U	0.10	10
Hexachlorobutadiene	0.27	U	0.27	10
Hexachlorocyclopentadiene	0.24	U	0.24	10
Hexachloroethane	0.80	U	0.80	10
Indeno[1,2,3-cd]pyrene	0.10	U	0.10	10
Isophorone	0.27	U	0.27	10
Naphthalene	0.14	J	0.10	10
Nitrobenzene	0.040	U	0.040	10
N-Nitrosodimethylamine	0.31	U	0.31	1.0
N-Nitrosodi-n-propylamine	0.80	U	0.80	10

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Client Sample ID: **DSP-2-123014 (COMP)**

Lab Sample ID: 240-45978-2 Date Sampled: 12/30/2014 1040
Client Matrix: Water Date Received: 12/31/2014 1100

625 Semivolatile Organic Compounds (GC/MS)

Analysis Method:	625	Analysis Batch:	240-163142	Instrument ID:	A4HP9
Prep Method:	625	Prep Batch:	240-163064	Lab File ID:	50105006.D
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Analysis Date:	01/05/2015 0943			Final Weight/Volume:	2 mL
Prep Date:	01/02/2015 0901			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
N-Nitrosodiphenylamine	0.31	U	0.31	10
4-Chloro-3-methylphenol	0.80	U	0.80	10
Pentachlorophenol	2.4	U	2.4	10
Phenanthrene	0.10	U	0.10	10
Phenol	0.60	U	0.60	10
Pyrene	0.10	U	0.10	10
1,2-Diphenylhydrazine	0.29	U	0.29	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorophenol	40		10 - 135
2,4,6-Tribromophenol	83		10 - 142
Nitrobenzene-d5	89		44 - 110
Phenol-d5	25		10 - 132
Terphenyl-d14	55		24 - 135
2-Fluorobiphenyl (Surr)	74		38 - 110

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Client Sample ID: **DSP-2-123014 (COMP)**

Lab Sample ID: 240-45978-2 Date Sampled: 12/30/2014 1040
Client Matrix: Water Date Received: 12/31/2014 1100

625 Dioxin Screen (GC/MS SIM)

Analysis Method:	625	Analysis Batch:	240-163205	Instrument ID:	A4HP9
Prep Method:	3510C	Prep Batch:	240-163065	Lab File ID:	50105011a.d
Dilution:	1.0			Initial Weight/Volume:	1000 mL
Analysis Date:	01/05/2015 1156			Final Weight/Volume:	0.4 mL
Prep Date:	01/02/2015 0903			Injection Volume:	1 uL

Analyte	Result (ng/uL)	Qualifier	MDL	RL
2,3,7,8-TCDD	NEG			

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Client Sample ID: **DSP-2-123014 (COMP)**

Lab Sample ID: 240-45978-2 Date Sampled: 12/30/2014 1040
Client Matrix: Water Date Received: 12/31/2014 1100

608 Organochlorine Pesticides in Water

Analysis Method:	608	Analysis Batch:	240-163275	Instrument ID:	A2HP15
Prep Method:	608	Prep Batch:	240-163139	Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	01/06/2015 1454			Injection Volume:	1 uL
Prep Date:	01/05/2015 0651			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aldrin	0.012	U	0.012	0.048
alpha-BHC	0.013	U	0.013	0.048
beta-BHC	0.012	U	0.012	0.048
delta-BHC	0.028	U	0.028	0.048
gamma-BHC (Lindane)	0.011	U	0.011	0.048
Chlordane (technical)	0.031	U	0.031	0.48
Chlordane (technical) Peak 1	0.031	U	0.031	0.48
Chlordane (technical) Peak 2	0.031	U	0.031	0.48
Chlordane (technical) Peak 3	0.031	U	0.031	0.48
Chlordane (technical) Peak 4	0.031	U	0.031	0.48
4,4'-DDD	0.017	U	0.017	0.048
4,4'-DDE	0.0086	U	0.0086	0.048
4,4'-DDT	0.013	U	0.013	0.048
Dieldrin	0.012	U	0.012	0.048
Endosulfan I	0.015	U	0.015	0.048
Endosulfan II	0.014	U	0.014	0.048
Endosulfan sulfate	0.010	U	0.010	0.048
Endrin	0.011	U	0.011	0.048
Endrin aldehyde	0.0076	U	0.0076	0.048
Heptachlor	0.0048	U	0.0048	0.048
Heptachlor epoxide	0.013	U	0.013	0.048
Toxaphene	0.19	U	0.19	1.9
Toxaphene Peak 1	0.19	U	0.19	1.9
Toxaphene Peak 2	0.19	U	0.19	1.9
Toxaphene Peak 3	0.19	U	0.19	1.9
Toxaphene Peak 4	0.19	U	0.19	1.9
Toxaphene Peak 5	0.19	U	0.19	1.9

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	28		10 - 151
Tetrachloro-m-xylene	79		10 - 151

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Client Sample ID: **DSP-2-123014 (COMP)**

Lab Sample ID: 240-45978-2 Date Sampled: 12/30/2014 1040
Client Matrix: Water Date Received: 12/31/2014 1100

608 Organochlorine Pesticides in Water

Analysis Method:	608	Analysis Batch:	240-163275	Instrument ID:	A2HP15
Prep Method:	608	Prep Batch:	240-163139	Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	01/06/2015 1454			Injection Volume:	1 uL
Prep Date:	01/05/2015 0651			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	27		10 - 151
Tetrachloro-m-xylene	81		10 - 151

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Client Sample ID: **DSP-2-123014 (COMP)**

Lab Sample ID: 240-45978-2 Date Sampled: 12/30/2014 1040
Client Matrix: Water Date Received: 12/31/2014 1100

608 Polychlorinated Biphenyls (PCBs) (GC)

Analysis Method:	608	Analysis Batch:	240-163212	Instrument ID:	A2HP11
Prep Method:	608	Prep Batch:	240-163143	Initial Weight/Volume:	1050 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	01/05/2015 1344			Injection Volume:	1 uL
Prep Date:	01/05/2015 0655			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Aroclor-1016	0.10	U	0.10	0.24
Aroclor-1221	0.11	U	0.11	0.24
Aroclor-1232	0.17	U	0.17	0.24
Aroclor-1242	0.14	U	0.14	0.24
Aroclor-1248	0.15	U	0.15	0.24
Aroclor-1254	0.076	U	0.076	0.24
Aroclor-1260	0.090	U	0.090	0.24

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	22		10 - 114
Tetrachloro-m-xylene	83		15 - 131

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Client Sample ID: **DSP-2-123014 (COMP)**

Lab Sample ID: 240-45978-2 Date Sampled: 12/30/2014 1040
Client Matrix: Water Date Received: 12/31/2014 1100

6010C Metals (ICP)-Total Recoverable

Analysis Method:	6010C	Analysis Batch:	240-163292	Instrument ID:	I9
Prep Method:	3005A	Prep Batch:	240-163105	Lab File ID:	I9010615A.asc
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1151			Final Weight/Volume:	50 mL
Prep Date:	01/02/2015 1238				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Silver	1.2	J B	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	1.9	U	1.9	25
Nickel	37	J	0.76	40
Lead	1.9	U	1.9	10
Zinc	93		9.6	50

7470A Mercury (CVAA)

Analysis Method:	7470A	Analysis Batch:	240-163340	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-163106	Lab File ID:	010615A-HG1.PRN
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1146			Final Weight/Volume:	50 mL
Prep Date:	01/02/2015 1340				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	0.090	U	0.090	0.20

General Chemistry

Client Sample ID: **DSP-2-123014 (GRAB)**

Lab Sample ID: 240-45978-1 Date Sampled: 12/30/2014 1040
Client Matrix: Water Date Received: 12/31/2014 1100

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
HEM (Oil & Grease)	0.97	U	mg/L	0.97	4.7	1.0	1664A
Analysis Batch: 240-163562	Analysis Date: 01/08/2015 0828						
Prep Batch: 240-163551	Prep Date: 01/08/2015 0828						
SGT-HEM	1.1	U	mg/L	1.1	4.7	1.0	1664A
Analysis Batch: 240-163562	Analysis Date: 01/08/2015 0828						
Prep Batch: 240-163551	Prep Date: 01/08/2015 0828						
pH	7.32	HF	SU	0.100	0.100	1.0	4500 H+ B-2000
Analysis Batch: 240-163027	Analysis Date: 12/31/2014 1515						
Biochemical Oxygen Demand	2.0	U	mg/L	2.0	2.0	1.0	5210B-2001
Analysis Batch: 240-163028	Analysis Date: 12/31/2014 1618						
Chemical Oxygen Demand	5.2	J	mg/L	5.1	10	1.0	5220D-1997
Analysis Batch: 240-163422	Analysis Date: 01/07/2015 1155						
Total Suspended Solids	1.8	U	mg/L	1.8	4.0	1.0	SM 2540D
Analysis Batch: 240-163172	Analysis Date: 01/05/2015 0902						
Cyanide, Total	0.0020	U	mg/L	0.0020	0.010	1.0	SM 4500 CN E
Analysis Batch: 240-163113	Analysis Date: 01/02/2015 1309						
Prep Batch: 240-163068	Prep Date: 01/02/2015 0918						
Total Phosphorus as P	0.050	U	mg/L	0.050	0.10	1.0	SM4500 P E-1999
Analysis Batch: 240-163351	Analysis Date: 01/06/2015 1314						
Prep Batch: 240-163261	Prep Date: 01/06/2015 0619						
Nitrogen, Kjeldahl	1.7	U	mg/L	1.7	5.0	1.0	SM4500_NH3_C
Analysis Batch: 240-163488	Analysis Date: 01/07/2015 1450						
Prep Batch: 240-163330	Prep Date: 01/06/2015 1204						

Client: Tetra Tech, Inc.

Job Number: 240-45978-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec
240-45978-1	DSP-2-123014 (GRAB)	106	98
MB 240-163033/5		106	99
LCS 240-163033/6		100	98
240-45981-A-1 MS		112	100

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	80-120

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Surrogate Recovery Report

625 Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	2FP %Rec	PHL %Rec	NBZ %Rec	FBP %Rec	TBP %Rec	TPH %Rec
240-45978-2	DSP-2-123014 (COMP)	40	25	89	74	83	55
MB 240-163064/2-A		58	38	93	78	86	87
LCS 240-163064/3-A		53	37	89	75	88	83

Surrogate	Acceptance Limits
2FP = 2-Fluorophenol	10-135
PHL = Phenol-d5	10-132
NBZ = Nitrobenzene-d5	44-110
FBP = 2-Fluorobiphenyl (Surr)	38-110
TBP = 2,4,6-Tribromophenol	10-142
TPH = Terphenyl-d14	24-135

Client: Tetra Tech, Inc.

Job Number: 240-45978-1

Surrogate Recovery Report

608 Organochlorine Pesticides in Water

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
240-45978-2	DSP-2-123014 (COMP)	79	81	28	27
MB 240-163139/4-A		95	124	67	69
LCS 240-163139/5-A		93	95	83	80

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	10-151
DCB = DCB Decachlorobiphenyl	10-151

Client: Tetra Tech, Inc.

Job Number: 240-45978-1

Surrogate Recovery Report

608 Polychlorinated Biphenyls (PCBs) (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCX1 %Rec	DCB1 %Rec
240-45978-2	DSP-2-123014 (COMP)	83	22
MB 240-163143/4-A		91	54
LCS 240-163143/5-A		83	66

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	15-131
DCB = DCB Decachlorobiphenyl	10-114

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163033

Method: 624
Preparation: N/A

Lab Sample ID:	MB 240-163033/5	Analysis Batch:	240-163033	Instrument ID:	A3UX9
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX947872.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/31/2014 1705	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.22	U	0.22	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.17	U	0.17	1.0
1,1-Dichloroethane	0.26	U	0.26	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.17	U	0.17	1.0
1,2-Dichloroethane	0.20	U	0.20	1.0
1,2-Dichloropropane	0.22	U	0.22	1.0
1,3-Dichlorobenzene	0.17	U	0.17	1.0
1,4-Dichlorobenzene	0.16	U	0.16	1.0
2-Chloroethyl vinyl ether	1.2	U	1.2	2.0
Acrolein	1.4	U	1.4	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.24	U	0.24	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.63	U	0.63	2.0
Carbon tetrachloride	0.17	U	0.17	1.0
Chlorobenzene	0.19	U	0.19	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.33	U	0.33	2.0
Chloroform	0.21	U	0.21	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.15	U	0.15	1.0
Ethylbenzene	0.23	U	0.23	1.0
Methylene Chloride	0.28	U	0.28	2.0
Tetrachloroethene	0.20	U	0.20	1.0
Toluene	0.22	U	0.22	1.0
trans-1,2-Dichloroethene	0.26	U	0.26	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.15	U	0.15	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	80 - 125
4-Bromofluorobenzene (Surr)	99	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	98	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	100	80 - 120

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163064

Method: 625
Preparation: 625

Lab Sample ID:	MB 240-163064/2-A	Analysis Batch:	240-163142	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-163064	Lab File ID:	50105004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/05/2015 0853	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	01/02/2015 0901			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,2,4-Trichlorobenzene	0.28	U	0.28	10
2,4,6-Trichlorophenol	0.80	U	0.80	10
2,4-Dichlorophenol	0.80	U	0.80	10
2,4-Dimethylphenol	0.80	U	0.80	10
2,4-Dinitrotoluene	0.27	U	0.27	10
2,6-Dinitrotoluene	0.80	U	0.80	10
2-Chloronaphthalene	0.10	U	0.10	10
2-Chlorophenol	0.29	U	0.29	10
2-Nitrophenol	0.28	U	0.28	10
3,3'-Dichlorobenzidine	0.37	U	0.37	10
4,6-Dinitro-2-methylphenol	2.4	U	2.4	50
4-Bromophenyl phenyl ether	0.80	U	0.80	10
4-Chlorophenyl phenyl ether	0.30	U	0.30	10
4-Nitrophenol	2.4	U	2.4	50
Acenaphthene	0.10	U	0.10	10
Acenaphthylene	0.10	U	0.10	10
Anthracene	0.10	U	0.10	10
Benzidine	2.4	U	2.4	5.0
Benzo[a]anthracene	0.10	U	0.10	10
Benzo[a]pyrene	0.10	U	0.10	10
Benzo[b]fluoranthene	0.10	U	0.10	10
Benzo[g,h,i]perylene	0.10	U	0.10	10
Benzo[k]fluoranthene	0.10	U	0.10	10
Bis(2-chloroethoxy)methane	0.32	U	0.32	10
Bis(2-chloroethyl)ether	0.10	U	0.10	10
Bis(2-ethylhexyl) phthalate	1.7	U	1.7	10
2,2'-oxybis[1-chloropropane]	0.40	U	0.40	10
Butyl benzyl phthalate	0.80	U	0.80	10
Chrysene	0.10	U	0.10	10
Dibenz(a,h)anthracene	0.10	U	0.10	10
Diethyl phthalate	0.60	U	0.60	10
Dimethyl phthalate	0.29	U	0.29	10
Di-n-butyl phthalate	1.7	U	1.7	10
Di-n-octyl phthalate	0.80	U	0.80	10
Fluoranthene	0.10	U	0.10	10
Fluorene	0.10	U	0.10	10
Hexachlorobenzene	0.10	U	0.10	10
Hexachlorobutadiene	0.27	U	0.27	10
Hexachlorocyclopentadiene	0.24	U	0.24	10
Hexachloroethane	0.80	U	0.80	10
Indeno[1,2,3-cd]pyrene	0.10	U	0.10	10
Isophorone	0.27	U	0.27	10
Naphthalene	0.10	U	0.10	10
Nitrobenzene	0.040	U	0.040	10
N-Nitrosodimethylamine	0.31	U	0.31	1.0

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163064

Method: 625
Preparation: 625

Lab Sample ID:	MB 240-163064/2-A	Analysis Batch:	240-163142	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-163064	Lab File ID:	50105004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/05/2015 0853	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	01/02/2015 0901			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
N-Nitrosodi-n-propylamine	0.80	U	0.80	10
N-Nitrosodiphenylamine	0.31	U	0.31	10
4-Chloro-3-methylphenol	0.80	U	0.80	10
Pentachlorophenol	2.4	U	2.4	10
Phenanthrene	0.10	U	0.10	10
Phenol	0.60	U	0.60	10
Pyrene	0.10	U	0.10	10
1,2-Diphenylhydrazine	0.29	U	0.29	1.0

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	58	10 - 135
2,4,6-Tribromophenol	86	10 - 142
Nitrobenzene-d5	93	44 - 110
Phenol-d5	38	10 - 132
Terphenyl-d14	87	24 - 135
2-Fluorobiphenyl (Surr)	78	38 - 110

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Lab Control Sample - Batch: 240-163064

Method: 625
Preparation: 625

Lab Sample ID:	LCS 240-163064/3-A	Analysis Batch:	240-163142	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-163064	Lab File ID:	50105005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/05/2015 0918	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	01/02/2015 0901			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2,4-Trichlorobenzene	20.0	12.9	65	44 - 142	
2,4,6-Trichlorophenol	20.0	15.5	77	37 - 144	
2,4-Dichlorophenol	20.0	16.2	81	39 - 135	
2,4-Dimethylphenol	20.0	15.5	78	32 - 119	
2,4-Dinitrotoluene	20.0	17.4	87	39 - 139	
2,6-Dinitrotoluene	20.0	16.5	82	50 - 158	
2-Chloronaphthalene	20.0	14.7	74	60 - 118	
2-Chlorophenol	20.0	15.1	75	23 - 134	
2-Nitrophenol	20.0	15.8	79	29 - 182	
3,3'-Dichlorobenzidine	40.0	33.5	84	0 - 262	
4,6-Dinitro-2-methylphenol	40.0	36.6	92	0 - 181	J
4-Bromophenyl phenyl ether	20.0	15.5	78	53 - 127	
4-Chlorophenyl phenyl ether	20.0	14.9	75	25 - 158	
4-Nitrophenol	40.0	18.3	46	0 - 132	J
Acenaphthene	20.0	14.8	74	47 - 145	
Acenaphthylene	20.0	14.5	73	33 - 145	
Anthracene	20.0	14.9	75	27 - 133	
Benzidine	40.0	29.2	73	10 - 120	
Benzo[a]anthracene	20.0	14.8	74	33 - 143	
Benzo[a]pyrene	20.0	15.5	78	17 - 163	
Benzo[b]fluoranthene	20.0	15.0	75	24 - 159	
Benzo[g,h,i]perylene	20.0	16.0	80	0 - 219	
Benzo[k]fluoranthene	20.0	17.0	85	11 - 162	
Bis(2-chloroethoxy)methane	20.0	16.6	83	33 - 184	
Bis(2-chloroethyl)ether	20.0	15.9	79	12 - 158	
Bis(2-ethylhexyl) phthalate	20.0	16.4	82	8 - 158	
2,2'-oxybis[1-chloropropane]	20.0	17.9	90	36 - 166	
Butyl benzyl phthalate	20.0	15.1	75	0 - 152	
Chrysene	20.0	14.9	75	17 - 168	
Dibenz(a,h)anthracene	20.0	15.5	78	0 - 227	
Diethyl phthalate	20.0	16.4	82	0 - 114	
Dimethyl phthalate	20.0	15.2	76	0 - 112	
Di-n-butyl phthalate	20.0	16.8	84	1 - 118	
Di-n-octyl phthalate	20.0	15.1	76	4 - 146	
Fluoranthene	20.0	15.9	80	26 - 137	
Fluorene	20.0	14.4	72	59 - 121	
Hexachlorobenzene	20.0	15.2	76	0 - 152	
Hexachlorobutadiene	20.0	12.6	63	24 - 116	
Hexachlorocyclopentadiene	20.0	9.50	47	4 - 120	J
Hexachloroethane	20.0	12.0	60	40 - 113	
Indeno[1,2,3-cd]pyrene	20.0	16.2	81	0 - 171	
Isophorone	20.0	16.7	84	21 - 196	
Naphthalene	20.0	14.2	71	21 - 133	
Nitrobenzene	20.0	17.4	87	35 - 180	
N-Nitrosodimethylamine	20.0	11.7	59	10 - 110	
N-Nitrosodi-n-propylamine	20.0	17.8	89	0 - 230	

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Lab Control Sample - Batch: 240-163064

Method: 625
Preparation: 625

Lab Sample ID:	LCS 240-163064/3-A	Analysis Batch:	240-163142	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-163064	Lab File ID:	50105005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/05/2015 0918	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	01/02/2015 0901			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
N-Nitrosodiphenylamine	40.0	30.3	76	38 - 120	
4-Chloro-3-methylphenol	20.0	16.9	84	22 - 147	
Pentachlorophenol	40.0	26.5	66	14 - 176	
Phenanthrene	20.0	15.2	76	54 - 120	
Phenol	20.0	7.20	36	5 - 112	J
Pyrene	20.0	15.6	78	52 - 115	
1,2-Diphenylhydrazine	20.0	17.1	85	50 - 150	

Surrogate	% Rec	Acceptance Limits
2-Fluorophenol	53	10 - 135
2,4,6-Tribromophenol	88	10 - 142
Nitrobenzene-d5	89	44 - 110
Phenol-d5	37	10 - 132
Terphenyl-d14	83	24 - 135
2-Fluorobiphenyl (Surr)	75	38 - 110

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163065

Method: 625
Preparation: 3510C

Lab Sample ID:	MB 240-163065/2-A	Analysis Batch:	240-163205	Instrument ID:	A4HP9
Client Matrix:	Water	Prep Batch:	240-163065	Lab File ID:	50105008a.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/05/2015 1101	Units:	ng/uL	Final Weight/Volume:	0.4 mL
Prep Date:	01/02/2015 0903			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2,3,7,8-TCDD	NEG			

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163139

Method: 608
Preparation: 608

Lab Sample ID:	MB 240-163139/4-A	Analysis Batch:	240-163275	Instrument ID:	A2HP15
Client Matrix:	Water	Prep Batch:	240-163139	Lab File ID:	F0010620.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/06/2015 1559	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/05/2015 0651			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aldrin	0.013	U	0.013	0.050
alpha-BHC	0.014	U	0.014	0.050
beta-BHC	0.013	U	0.013	0.050
delta-BHC	0.029	U	0.029	0.050
gamma-BHC (Lindane)	0.012	U	0.012	0.050
Chlordane (technical)	0.033	U	0.033	0.50
Chlordane (technical) Peak 1	0.033	U	0.033	0.50
Chlordane (technical) Peak 2	0.033	U	0.033	0.50
Chlordane (technical) Peak 3	0.033	U	0.033	0.50
Chlordane (technical) Peak 4	0.033	U	0.033	0.50
4,4'-DDD	0.018	U	0.018	0.050
4,4'-DDE	0.0090	U	0.0090	0.050
4,4'-DDT	0.014	U	0.014	0.050
Dieldrin	0.013	U	0.013	0.050
Endosulfan I	0.016	U	0.016	0.050
Endosulfan II	0.015	U	0.015	0.050
Endosulfan sulfate	0.011	U	0.011	0.050
Endrin	0.012	U	0.012	0.050
Endrin aldehyde	0.0080	U	0.0080	0.050
Heptachlor	0.0050	U	0.0050	0.050
Heptachlor epoxide	0.014	U	0.014	0.050
Toxaphene	0.20	U	0.20	2.0
Toxaphene Peak 1	0.20	U	0.20	2.0
Toxaphene Peak 2	0.20	U	0.20	2.0
Toxaphene Peak 3	0.20	U	0.20	2.0
Toxaphene Peak 4	0.20	U	0.20	2.0
Toxaphene Peak 5	0.20	U	0.20	2.0

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	67	10 - 151
Tetrachloro-m-xylene	95	10 - 151

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	69	10 - 151
Tetrachloro-m-xylene	124	10 - 151

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Lab Control Sample - Batch: 240-163139

Method: 608
Preparation: 608

Lab Sample ID:	LCS 240-163139/5-A	Analysis Batch:	240-163275	Instrument ID:	A2HP15
Client Matrix:	Water	Prep Batch:	240-163139	Lab File ID:	F0010621.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/06/2015 1621	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/05/2015 0651			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aldrin	0.500	0.388	78	42 - 122	
alpha-BHC	0.500	0.425	85	37 - 134	
beta-BHC	0.500	0.389	78	17 - 147	
delta-BHC	0.500	0.412	82	19 - 140	
gamma-BHC (Lindane)	0.500	0.419	84	32 - 127	
4,4'-DDD	0.500	0.413	83	31 - 141	
4,4'-DDE	0.500	0.421	84	30 - 145	
4,4'-DDT	0.500	0.482	96	25 - 160	
Dieldrin	0.500	0.428	86	36 - 146	
Endosulfan I	0.500	0.286	57	45 - 153	
Endosulfan II	0.500	0.330	66	10 - 202	
Endosulfan sulfate	0.500	0.397	79	26 - 144	
Endrin	0.500	0.427	85	30 - 147	
Heptachlor	0.500	0.426	85	34 - 111	
Heptachlor epoxide	0.500	0.412	82	37 - 142	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	83	10 - 151
Tetrachloro-m-xylene	93	10 - 151

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	80	10 - 151
Tetrachloro-m-xylene	95	10 - 151

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163143

Method: 608
Preparation: 608

Lab Sample ID:	MB 240-163143/4-A	Analysis Batch:	240-163212	Instrument ID:	A2HP11
Client Matrix:	Water	Prep Batch:	240-163143	Lab File ID:	P1100007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/05/2015 1426	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/05/2015 0655			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor-1016	0.11	U	0.11	0.25
Aroclor-1221	0.11	U	0.11	0.25
Aroclor-1232	0.18	U	0.18	0.25
Aroclor-1242	0.15	U	0.15	0.25
Aroclor-1248	0.15	U	0.15	0.25
Aroclor-1254	0.080	U	0.080	0.25
Aroclor-1260	0.095	U	0.095	0.25

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	54	10 - 114
Tetrachloro-m-xylene	91	15 - 131

Lab Control Sample - Batch: 240-163143

Method: 608
Preparation: 608

Lab Sample ID:	LCS 240-163143/5-A	Analysis Batch:	240-163212	Instrument ID:	A2HP11
Client Matrix:	Water	Prep Batch:	240-163143	Lab File ID:	P1100008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/05/2015 1440	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/05/2015 0655			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor-1016	5.00	4.40	88	50 - 114	
Aroclor-1260	5.00	4.07	81	8 - 127	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	66	10 - 114
Tetrachloro-m-xylene	83	15 - 131

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163105

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 240-163105/1-A	Analysis Batch:	240-163292	Instrument ID:	I9
Client Matrix:	Water	Prep Batch:	240-163105	Lab File ID:	I9010615A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1143	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	01/02/2015 1238				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Silver	1.30	J	0.92	10
Cadmium	0.14	U	0.14	5.0
Chromium	0.55	U	0.55	10
Copper	1.9	U	1.9	25
Nickel	0.76	U	0.76	40
Lead	1.9	U	1.9	10
Zinc	9.6	U	9.6	50

Lab Control Sample - Batch: 240-163105

Method: 6010C
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 240-163105/2-A	Analysis Batch:	240-163292	Instrument ID:	I9
Client Matrix:	Water	Prep Batch:	240-163105	Lab File ID:	I9010615A.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1147	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	01/02/2015 1238				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Silver	50.0	54.7	109	80 - 120	
Cadmium	50.0	50.3	101	80 - 120	
Chromium	200	190	95	80 - 120	
Copper	250	253	101	80 - 120	
Nickel	500	460	92	80 - 120	
Lead	500	461	92	80 - 120	
Zinc	500	446	89	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163106

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 240-163106/1-A	Analysis Batch:	240-163340	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-163106	Lab File ID:	010615A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1122	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	01/02/2015 1340				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.090	U	0.090	0.20

Lab Control Sample - Batch: 240-163106

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 240-163106/2-A	Analysis Batch:	240-163340	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-163106	Lab File ID:	010615A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1124	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	01/02/2015 1340				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	4.79	96	80 - 120	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-163106

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	240-45955-C-1-E MS	Analysis Batch:	240-163340	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-163106	Lab File ID:	010615A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1128			Final Weight/Volume:	50 mL
Prep Date:	01/02/2015 1340				
Leach Date:	N/A				

MSD Lab Sample ID:	240-45955-C-1-F MSD	Analysis Batch:	240-163340	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-163106	Lab File ID:	010615A-HG1.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1129			Final Weight/Volume:	50 mL
Prep Date:	01/02/2015 1340				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	89	91	80 - 120	1	20		

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-163106

Method: 7470A
Preparation: 7470A

MS Lab Sample ID:	240-45955-C-1-E MS	Units:	ug/L	MSD Lab Sample ID:	240-45955-C-1-F MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/06/2015 1128			Analysis Date:	01/06/2015 1129
Prep Date:	01/02/2015 1340			Prep Date:	01/02/2015 1340
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.14	J	1.00	1.00	1.04	1.05

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163551

Method: 1664A
Preparation: 1664A

Lab Sample ID:	MB 240-163551/1-A	Analysis Batch:	240-163562	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-163551	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/08/2015 0828	Units:	mg/L	Final Weight/Volume:	1000 mL
Prep Date:	01/08/2015 0828				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
HEM (Oil & Grease)	1.0	U	1.0	5.0

Lab Control Sample - Batch: 240-163551

Method: 1664A
Preparation: 1664A

Lab Sample ID:	LCS 240-163551/2-A	Analysis Batch:	240-163562	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-163551	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/08/2015 0828	Units:	mg/L	Final Weight/Volume:	1000 mL
Prep Date:	01/08/2015 0828				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil & Grease)	40.0	34.7	87	78 - 114	

Matrix Spike - Batch: 240-163551

Method: 1664A
Preparation: 1664A

Lab Sample ID:	240-45927-I-1-A MS	Analysis Batch:	240-163562	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-163551	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	971 mL
Analysis Date:	01/08/2015 0828	Units:	mg/L	Final Weight/Volume:	1000 mL
Prep Date:	01/08/2015 0828				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
HEM (Oil & Grease)	1.0	U	41.2	33.9	82	78 - 114	

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Lab Control Sample - Batch: 240-163027

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-163027/2	Analysis Batch:	240-163027	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/31/2014 1326	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.15	6.260	102	97 - 103	

Duplicate - Batch: 240-163027

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-45960-B-1 DU	Analysis Batch:	240-163027	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/31/2014 1328	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.60	7.620	0.3	20	

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Unseeded Control Blank - Batch: 240-163028

Method: 5210B-2001
Preparation: N/A

Lab Sample ID:	USB 240-163028/1	Analysis Batch:	240-163028	Instrument ID:	Bugsy
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	300 mL
Analysis Date:	12/31/2014 1517	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Biochemical Oxygen Demand	2.0	U	2.0	2.0

Seeded Control Blank - Batch: 240-163028

Method: 5210B-2001
Preparation: N/A

Lab Sample ID:	SCB 240-163028/2	Analysis Batch:	240-163028	Instrument ID:	Bugsy
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	300 mL
Analysis Date:	12/31/2014 1518	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Biochemical Oxygen Demand	2.0	U	2.0	2.0

Lab Control Sample - Batch: 240-163028

Method: 5210B-2001
Preparation: N/A

Lab Sample ID:	LCS 240-163028/3	Analysis Batch:	240-163028	Instrument ID:	Bugsy
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	300 mL
Analysis Date:	12/31/2014 1527	Units:	mg/L	Final Weight/Volume:	300 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Biochemical Oxygen Demand	198	184	93	85 - 115	

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163422

Method: 5220D-1997
Preparation: N/A

Lab Sample ID:	MB 240-163422/9	Analysis Batch:	240-163422	Instrument ID:	ERNIE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	01/07/2015 1141	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Chemical Oxygen Demand	5.1	U	5.1	10

Lab Control Sample - Batch: 240-163422

Method: 5220D-1997
Preparation: N/A

Lab Sample ID:	LCS 240-163422/10	Analysis Batch:	240-163422	Instrument ID:	ERNIE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	01/07/2015 1142	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chemical Oxygen Demand	68.0	69.3	102	90 - 110	

Matrix Spike - Batch: 240-163422

Method: 5220D-1997
Preparation: N/A

Lab Sample ID:	240-46034-D-1 MS	Analysis Batch:	240-163422	Instrument ID:	ERNIE
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.9 mL
Analysis Date:	01/07/2015 1154	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chemical Oxygen Demand	7.5	J	50.0	69.2	123	90 - 110	F1

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163172

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	MB 240-163172/1	Analysis Batch:	240-163172	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	01/05/2015 0902	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Suspended Solids	1.8	U	1.8	4.0

Lab Control Sample - Batch: 240-163172

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	LCS 240-163172/2	Analysis Batch:	240-163172	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	01/05/2015 0902	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Suspended Solids	22.3	17.0	76	73 - 113	

Duplicate - Batch: 240-163172

Method: SM 2540D
Preparation: N/A

Lab Sample ID:	240-46004-A-1 DU	Analysis Batch:	240-163172	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	01/05/2015 0902	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Suspended Solids	20	22.0	10	10	

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163068

Method: SM 4500 CN E
Preparation: Distill/CN

Lab Sample ID:	MB 240-163068/1-A	Analysis Batch:	240-163113	Instrument ID:	SAURON
Client Matrix:	Water	Prep Batch:	240-163068	Lab File ID:	010215 cn A.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2015 1309	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	01/02/2015 0918				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Cyanide, Total	0.00219	J	0.0020	0.010

Lab Control Sample - Batch: 240-163068

Method: SM 4500 CN E
Preparation: Distill/CN

Lab Sample ID:	LCS 240-163068/2-A	Analysis Batch:	240-163113	Instrument ID:	SAURON
Client Matrix:	Water	Prep Batch:	240-163068	Lab File ID:	010215 cn A.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2015 1309	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	01/02/2015 0918				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.0921	0.0966	105	69 - 118	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-163068

Method: SM 4500 CN E
Preparation: Distill/CN

MS Lab Sample ID:	240-45955-B-4-B MS	Analysis Batch:	240-163113	Instrument ID:	SAURON
Client Matrix:	Water	Prep Batch:	240-163068	Lab File ID:	010215 cn A.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2015 1309			Final Weight/Volume:	25 mL
Prep Date:	01/02/2015 0918				
Leach Date:	N/A				

MSD Lab Sample ID:	240-45955-B-4-C MSD	Analysis Batch:	240-163113	Instrument ID:	SAURON
Client Matrix:	Water	Prep Batch:	240-163068	Lab File ID:	010215 cn A.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/02/2015 1309			Final Weight/Volume:	25 mL
Prep Date:	01/02/2015 0918				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Cyanide, Total	97	86	42 - 140	11	20		

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-163068

Method: SM 4500 CN E
Preparation: Distill/CN

MS Lab Sample ID:	240-45955-B-4-B MS	Units:	mg/L	MSD Lab Sample ID:	240-45955-B-4-C MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/02/2015 1309			Analysis Date:	01/02/2015 1309
Prep Date:	01/02/2015 0918			Prep Date:	01/02/2015 0918
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cyanide, Total	0.0031	J	0.0400	0.0400	0.0420	0.0375

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Reporting Limit Check - Batch: 240-163113

Method: SM 4500 CN E
Preparation: N/A

Lab Sample ID:	MRL 240-163113/6	Analysis Batch:	240-163113	Instrument ID:	SAURON
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	010215 cn A.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	2 mL
Analysis Date:	01/02/2015 1227	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Cyanide, Total	0.0100	0.00973	97	70 - 130	J

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Method Blank - Batch: 240-163261

Method: SM4500 P E-1999
Preparation: 365.2/365.3/365

Lab Sample ID:	MB 240-163261/10-A	Analysis Batch:	240-163351	Instrument ID:	BARNEY
Client Matrix:	Water	Prep Batch:	240-163261	Lab File ID:	P010615.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1314	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	01/06/2015 0611				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Total Phosphorus as P	0.050	U	0.050	0.10

Lab Control Sample - Batch: 240-163261

Method: SM4500 P E-1999
Preparation: 365.2/365.3/365

Lab Sample ID:	LCS 240-163261/11-A	Analysis Batch:	240-163351	Instrument ID:	BARNEY
Client Matrix:	Water	Prep Batch:	240-163261	Lab File ID:	P010615.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1314	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	01/06/2015 0612				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Total Phosphorus as P	0.313	0.310	99	53 - 134	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-163261

Method: SM4500 P E-1999
Preparation: 365.2/365.3/365

MS Lab Sample ID:	190-6152-B-1-F MS	Analysis Batch:	240-163351	Instrument ID:	BARNEY
Client Matrix:	Water	Prep Batch:	240-163261	Lab File ID:	P010615.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1314			Final Weight/Volume:	50 mL
Prep Date:	01/06/2015 0615				
Leach Date:	N/A				

MSD Lab Sample ID:	190-6152-B-1-G MSD	Analysis Batch:	240-163351	Instrument ID:	BARNEY
Client Matrix:	Water	Prep Batch:	240-163261	Lab File ID:	P010615.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/06/2015 1314			Final Weight/Volume:	50 mL
Prep Date:	01/06/2015 0616				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Total Phosphorus as P	98	57	10 - 199	42	20		F2

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-163261

Method: SM4500 P E-1999
Preparation: 365.2/365.3/365

MS Lab Sample ID:	190-6152-B-1-F MS	Units: mg/L	MSD Lab Sample ID:	190-6152-B-1-G MSD	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	01/06/2015 1314		Analysis Date:	01/06/2015 1314	
Prep Date:	01/06/2015 0615		Prep Date:	01/06/2015 0616	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual	
Total Phosphorus as P	0.10	0.500	0.500	0.593	0.386	F2

Method Blank - Batch: 240-163330

Method: SM4500_NH3_C
Preparation: SM4500Norg_C

Lab Sample ID:	MB 240-163330/1-A	Analysis Batch:	240-163488	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-163330	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	01/07/2015 1445	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	01/06/2015 1204				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Nitrogen, Kjeldahl	1.7	U	1.7	5.0

Lab Control Sample - Batch: 240-163330

Method: SM4500_NH3_C
Preparation: SM4500Norg_C

Lab Sample ID:	LCS 240-163330/2-A	Analysis Batch:	240-163488	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-163330	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	01/07/2015 1446	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	01/06/2015 1204				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrogen, Kjeldahl	7.77	6.65	86	65 - 144	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-163330

Method: SM4500_NH3_C
Preparation: SM4500Norg_C

MS Lab Sample ID:	240-45978-1	Analysis Batch:	240-163488	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-163330	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	01/07/2015 1452			Final Weight/Volume:	25 mL
Prep Date:	01/06/2015 1204				
Leach Date:	N/A				

MSD Lab Sample ID:	240-45978-1	Analysis Batch:	240-163488	Instrument ID:	No Equipment Assigned
Client Matrix:	Water	Prep Batch:	240-163330	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	01/07/2015 1453			Final Weight/Volume:	25 mL
Prep Date:	01/06/2015 1204				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Nitrogen, Kjeldahl	100	94	10 - 200	6	20		

Client: Tetra Tech, Inc.

Job Number: 240-45978-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-163330

Method: SM4500_NH3_C
Preparation: SM4500Norg_C

MS Lab Sample ID:	240-45978-1	Units:	mg/L	MSD Lab Sample ID:	240-45978-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/07/2015 1452			Analysis Date:	01/07/2015 1453
Prep Date:	01/06/2015 1204			Prep Date:	01/06/2015 1204
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrogen, Kjeldahl	1.7	U	20.0	20.0	20.0	18.8

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Indicates the analyte was analyzed for but not detected.
	X	Surrogate is outside control limits
Metals		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery exceeds the control limits
	F2	MS/MSD RPD exceeds control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Tetra Tech, Inc. Job Number: 240-45978-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-163033					
LCS 240-163033/6	Lab Control Sample	T	Water	624	
MB 240-163033/5	Method Blank	T	Water	624	
240-45978-1	DSP-2-123014 (GRAB)	T	Water	624	
240-45981-A-1 MS	Matrix Spike	T	Water	624	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 240-163064					
LCS 240-163064/3-A	Lab Control Sample	T	Water	625	
MB 240-163064/2-A	Method Blank	T	Water	625	
240-45978-2	DSP-2-123014 (COMP)	T	Water	625	
Prep Batch: 240-163065					
MB 240-163065/2-A	Method Blank	T	Water	3510C	
240-45978-2	DSP-2-123014 (COMP)	T	Water	3510C	
Analysis Batch:240-163142					
LCS 240-163064/3-A	Lab Control Sample	T	Water	625	240-163064
MB 240-163064/2-A	Method Blank	T	Water	625	240-163064
240-45978-2	DSP-2-123014 (COMP)	T	Water	625	240-163064
Analysis Batch:240-163205					
MB 240-163065/2-A	Method Blank	T	Water	625	240-163065
240-45978-2	DSP-2-123014 (COMP)	T	Water	625	240-163065

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-45978-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 240-163139					
LCS 240-163139/5-A	Lab Control Sample	T	Water	608	
MB 240-163139/4-A	Method Blank	T	Water	608	
240-45978-2	DSP-2-123014 (COMP)	T	Water	608	
Prep Batch: 240-163143					
LCS 240-163143/5-A	Lab Control Sample	T	Water	608	
MB 240-163143/4-A	Method Blank	T	Water	608	
240-45978-2	DSP-2-123014 (COMP)	T	Water	608	
Analysis Batch:240-163212					
LCS 240-163143/5-A	Lab Control Sample	T	Water	608	240-163143
MB 240-163143/4-A	Method Blank	T	Water	608	240-163143
240-45978-2	DSP-2-123014 (COMP)	T	Water	608	240-163143
Analysis Batch:240-163275					
LCS 240-163139/5-A	Lab Control Sample	T	Water	608	240-163139
MB 240-163139/4-A	Method Blank	T	Water	608	240-163139
240-45978-2	DSP-2-123014 (COMP)	T	Water	608	240-163139

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-45978-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-163105					
LCS 240-163105/2-A	Lab Control Sample	R	Water	3005A	
MB 240-163105/1-A	Method Blank	R	Water	3005A	
240-45978-2	DSP-2-123014 (COMP)	R	Water	3005A	
Prep Batch: 240-163106					
LCS 240-163106/2-A	Lab Control Sample	T	Water	7470A	
MB 240-163106/1-A	Method Blank	T	Water	7470A	
240-45955-C-1-E MS	Matrix Spike	T	Water	7470A	
240-45955-C-1-F MSD	Matrix Spike Duplicate	T	Water	7470A	
240-45978-2	DSP-2-123014 (COMP)	T	Water	7470A	
Analysis Batch:240-163292					
LCS 240-163105/2-A	Lab Control Sample	R	Water	6010C	240-163105
MB 240-163105/1-A	Method Blank	R	Water	6010C	240-163105
240-45978-2	DSP-2-123014 (COMP)	R	Water	6010C	240-163105
Analysis Batch:240-163340					
LCS 240-163106/2-A	Lab Control Sample	T	Water	7470A	240-163106
MB 240-163106/1-A	Method Blank	T	Water	7470A	240-163106
240-45955-C-1-E MS	Matrix Spike	T	Water	7470A	240-163106
240-45955-C-1-F MSD	Matrix Spike Duplicate	T	Water	7470A	240-163106
240-45978-2	DSP-2-123014 (COMP)	T	Water	7470A	240-163106

Report Basis
R = Total Recoverable
T = Total

Client: Tetra Tech, Inc. Job Number: 240-45978-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-163027					
LCS 240-163027/2	Lab Control Sample	T	Water	4500 H+ B-2000	
240-45960-B-1 DU	Duplicate	T	Water	4500 H+ B-2000	
240-45978-1	DSP-2-123014 (GRAB)	T	Water	4500 H+ B-2000	
Analysis Batch:240-163028					
LCS 240-163028/3	Lab Control Sample	T	Water	5210B-2001	
SCB 240-163028/2	Seeded Control Blank	T	Water	5210B-2001	
USB 240-163028/1	Unseeded Control Blank	T	Water	5210B-2001	
240-45978-1	DSP-2-123014 (GRAB)	T	Water	5210B-2001	
Prep Batch: 240-163068					
LCS 240-163068/2-A	Lab Control Sample	T	Water	Distill/CN	
MB 240-163068/1-A	Method Blank	T	Water	Distill/CN	
240-45955-B-4-B MS	Matrix Spike	T	Water	Distill/CN	
240-45955-B-4-C MSD	Matrix Spike Duplicate	T	Water	Distill/CN	
240-45978-1	DSP-2-123014 (GRAB)	T	Water	Distill/CN	
Analysis Batch:240-163113					
LCS 240-163068/2-A	Lab Control Sample	T	Water	SM 4500 CN E	240-163068
MB 240-163068/1-A	Method Blank	T	Water	SM 4500 CN E	240-163068
240-45955-B-4-B MS	Matrix Spike	T	Water	SM 4500 CN E	240-163068
240-45955-B-4-C MSD	Matrix Spike Duplicate	T	Water	SM 4500 CN E	240-163068
240-45978-1	DSP-2-123014 (GRAB)	T	Water	SM 4500 CN E	240-163068
Analysis Batch:240-163172					
LCS 240-163172/2	Lab Control Sample	T	Water	SM 2540D	
MB 240-163172/1	Method Blank	T	Water	SM 2540D	
240-45978-1	DSP-2-123014 (GRAB)	T	Water	SM 2540D	
240-46004-A-1 DU	Duplicate	T	Water	SM 2540D	
Prep Batch: 240-163261					
LCS 240-163261/11-A	Lab Control Sample	T	Water	365.2/365.3/365	
MB 240-163261/10-A	Method Blank	T	Water	365.2/365.3/365	
190-6152-B-1-F MS	Matrix Spike	T	Water	365.2/365.3/365	
190-6152-B-1-G MSD	Matrix Spike Duplicate	T	Water	365.2/365.3/365	
240-45978-1	DSP-2-123014 (GRAB)	T	Water	365.2/365.3/365	
Prep Batch: 240-163330					
LCS 240-163330/2-A	Lab Control Sample	T	Water	SM4500Norg_C	
MB 240-163330/1-A	Method Blank	T	Water	SM4500Norg_C	
240-45978-1	DSP-2-123014 (GRAB)	T	Water	SM4500Norg_C	
240-45978-1MS	Matrix Spike	T	Water	SM4500Norg_C	
240-45978-1MSD	Matrix Spike Duplicate	T	Water	SM4500Norg_C	

Client: Tetra Tech, Inc. Job Number: 240-45978-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:240-163351					
LCS 240-163261/11-A	Lab Control Sample	T	Water	SM4500 P E-1999	240-163261
MB 240-163261/10-A	Method Blank	T	Water	SM4500 P E-1999	240-163261
190-6152-B-1-F MS	Matrix Spike	T	Water	SM4500 P E-1999	240-163261
190-6152-B-1-G MSD	Matrix Spike Duplicate	T	Water	SM4500 P E-1999	240-163261
240-45978-1	DSP-2-123014 (GRAB)	T	Water	SM4500 P E-1999	240-163261
Analysis Batch:240-163422					
LCS 240-163422/10	Lab Control Sample	T	Water	5220D-1997	
MB 240-163422/9	Method Blank	T	Water	5220D-1997	
240-45978-1	DSP-2-123014 (GRAB)	T	Water	5220D-1997	
240-46034-D-1 MS	Matrix Spike	T	Water	5220D-1997	
Analysis Batch:240-163488					
LCS 240-163330/2-A	Lab Control Sample	T	Water	SM4500_NH3_C	240-163330
MB 240-163330/1-A	Method Blank	T	Water	SM4500_NH3_C	240-163330
240-45978-1	DSP-2-123014 (GRAB)	T	Water	SM4500_NH3_C	240-163330
240-45978-1MS	Matrix Spike	T	Water	SM4500_NH3_C	240-163330
240-45978-1MSD	Matrix Spike Duplicate	T	Water	SM4500_NH3_C	240-163330
Prep Batch: 240-163551					
LCS 240-163551/2-A	Lab Control Sample	T	Water	1664A	
MB 240-163551/1-A	Method Blank	T	Water	1664A	
240-45927-I-1-A MS	Matrix Spike	T	Water	1664A	
240-45978-1	DSP-2-123014 (GRAB)	T	Water	1664A	
Analysis Batch:240-163562					
LCS 240-163551/2-A	Lab Control Sample	T	Water	1664A	240-163551
MB 240-163551/1-A	Method Blank	T	Water	1664A	240-163551
240-45927-I-1-A MS	Matrix Spike	T	Water	1664A	240-163551
240-45978-1	DSP-2-123014 (GRAB)	T	Water	1664A	240-163551

Report Basis

T = Total

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Laboratory Chronicle

Lab ID: 240-45978-1 **Client ID: DSP-2-123014 (GRAB)**

Sample Date/Time: 12/30/2014 10:40 Received Date/Time: 12/31/2014 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-45978-C-1		240-163033		12/31/2014 17:28	1	TAL CAN	TJL1
P:1664A	240-45978-J-1-A		240-163562	240-163551	01/08/2015 08:28	1	TAL CAN	NJE
A:1664A	240-45978-J-1-A		240-163562	240-163551	01/08/2015 08:28	1	TAL CAN	NJE
A:4500 H+ B-2000	240-45978-E-1		240-163027		12/31/2014 15:15	1	TAL CAN	LCN
A:5210B-2001	240-45978-F-1		240-163028		12/31/2014 16:18	1	TAL CAN	NJE
A:5220D-1997	240-45978-H-1		240-163422		01/07/2015 11:55	1	TAL CAN	TPH
A:SM 2540D	240-45978-E-1		240-163172		01/05/2015 09:02	1	TAL CAN	LCN
P:Distill/CN	240-45978-D-1-A		240-163113	240-163068	01/02/2015 09:18	1	TAL CAN	SEM
A:SM 4500 CN E	240-45978-D-1-A		240-163113	240-163068	01/02/2015 13:09	1	TAL CAN	SEM
P:365.2/365.3/365	240-45978-G-1-A		240-163351	240-163261	01/06/2015 06:19	1	TAL CAN	TPH
A:SM4500 P E-1999	240-45978-G-1-A		240-163351	240-163261	01/06/2015 13:14	1	TAL CAN	TPH
P:SM4500Norg_C	240-45978-H-1-A		240-163488	240-163330	01/06/2015 12:04	1	TAL CAN	JAK
A:SM4500_NH3_C	240-45978-H-1-A		240-163488	240-163330	01/07/2015 14:50	1	TAL CAN	JAK

Lab ID: 240-45978-1 MS **Client ID: DSP-2-123014 (GRAB)**

Sample Date/Time: 12/30/2014 10:40 Received Date/Time: 12/31/2014 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:SM4500Norg_C	240-45978-H-1-B MS		240-163488	240-163330	01/06/2015 12:04	1	TAL CAN	JAK
A:SM4500_NH3_C	240-45978-H-1-B MS		240-163488	240-163330	01/07/2015 14:52	1	TAL CAN	JAK

Lab ID: 240-45978-1 MSD **Client ID: DSP-2-123014 (GRAB)**

Sample Date/Time: 12/30/2014 10:40 Received Date/Time: 12/31/2014 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:SM4500Norg_C	240-45978-H-1-C MSD		240-163488	240-163330	01/06/2015 12:04	1	TAL CAN	JAK
A:SM4500_NH3_C	240-45978-H-1-C MSD		240-163488	240-163330	01/07/2015 14:53	1	TAL CAN	JAK

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Laboratory Chronicle

Lab ID: 240-45978-2 **Client ID: DSP-2-123014 (COMP)**

Sample Date/Time: 12/30/2014 10:40 Received Date/Time: 12/31/2014 11:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:625	240-45978-E-2-A		240-163142	240-163064	01/02/2015 09:01	1	TAL CAN	JDR
A:625	240-45978-E-2-A		240-163142	240-163064	01/05/2015 09:43	1	TAL CAN	MRU
P:3510C	240-45978-E-2-B		240-163205	240-163065	01/02/2015 09:03	1	TAL CAN	JDR
A:625	240-45978-E-2-B		240-163205	240-163065	01/05/2015 11:56	1	TAL CAN	MRU
P:608	240-45978-F-2-B		240-163212	240-163143	01/05/2015 06:55	1	TAL CAN	EMB
A:608	240-45978-F-2-B		240-163212	240-163143	01/05/2015 13:44	1	TAL CAN	RSK
P:608	240-45978-F-2-A		240-163275	240-163139	01/05/2015 06:51	1	TAL CAN	EMB
A:608	240-45978-F-2-A		240-163275	240-163139	01/06/2015 14:54	1	TAL CAN	BPM
P:3005A	240-45978-A-2-A		240-163292	240-163105	01/02/2015 12:38	1	TAL CAN	ADS
A:6010C	240-45978-A-2-A		240-163292	240-163105	01/06/2015 11:51	1	TAL CAN	KLC
P:7470A	240-45978-A-2-B		240-163340	240-163106	01/02/2015 13:40	1	TAL CAN	ADS
A:7470A	240-45978-A-2-B		240-163340	240-163106	01/06/2015 11:46	1	TAL CAN	AMM2

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-163033/5		240-163033		12/31/2014 17:05	1	TAL CAN	TJL1
P:625	MB 240-163064/2-A		240-163142	240-163064	01/02/2015 09:01	1	TAL CAN	JDR
A:625	MB 240-163064/2-A		240-163142	240-163064	01/05/2015 08:53	1	TAL CAN	MRU
P:3510C	MB 240-163065/2-A		240-163205	240-163065	01/02/2015 09:03	1	TAL CAN	JDR
A:625	MB 240-163065/2-A		240-163205	240-163065	01/05/2015 11:01	1	TAL CAN	MRU
P:608	MB 240-163143/4-A		240-163212	240-163143	01/05/2015 06:55	1	TAL CAN	EMB
A:608	MB 240-163143/4-A		240-163212	240-163143	01/05/2015 14:26	1	TAL CAN	RSK
P:608	MB 240-163139/4-A		240-163275	240-163139	01/05/2015 06:51	1	TAL CAN	EMB
A:608	MB 240-163139/4-A		240-163275	240-163139	01/06/2015 15:59	1	TAL CAN	BPM
P:3005A	MB 240-163105/1-A		240-163292	240-163105	01/02/2015 12:38	1	TAL CAN	ADS
A:6010C	MB 240-163105/1-A		240-163292	240-163105	01/06/2015 11:43	1	TAL CAN	KLC
P:7470A	MB 240-163106/1-A		240-163340	240-163106	01/02/2015 13:40	1	TAL CAN	ADS
A:7470A	MB 240-163106/1-A		240-163340	240-163106	01/06/2015 11:22	1	TAL CAN	AMM2
P:1664A	MB 240-163551/1-A		240-163562	240-163551	01/08/2015 08:28	1	TAL CAN	NJE
A:1664A	MB 240-163551/1-A		240-163562	240-163551	01/08/2015 08:28	1	TAL CAN	NJE
A:5220D-1997	MB 240-163422/9		240-163422		01/07/2015 11:41	1	TAL CAN	TPH
A:SM 2540D	MB 240-163172/1		240-163172		01/05/2015 09:02	1	TAL CAN	LCN
P:Distill/CN	MB 240-163068/1-A		240-163113	240-163068	01/02/2015 09:18	1	TAL CAN	SEM
A:SM 4500 CN E	MB 240-163068/1-A		240-163113	240-163068	01/02/2015 13:09	1	TAL CAN	SEM
P:365.2/365.3/365	MB 240-163261/10-A		240-163351	240-163261	01/06/2015 06:11	1	TAL CAN	TPH
A:SM4500 P E-1999	MB 240-163261/10-A		240-163351	240-163261	01/06/2015 13:14	1	TAL CAN	TPH
P:SM4500Norg_C	MB 240-163330/1-A		240-163488	240-163330	01/06/2015 12:04	1	TAL CAN	JAK
A:SM4500_NH3_C	MB 240-163330/1-A		240-163488	240-163330	01/07/2015 14:45	1	TAL CAN	JAK

Client: Tetra Tech, Inc. Job Number: 240-45978-1

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Lab ID: USB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:5210B-2001	USB 240-163028/1		240-163028		12/31/2014 15:17	1	TAL CAN	NJE

Lab ID: SCB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:5210B-2001	SCB 240-163028/2		240-163028		12/31/2014 15:18	1	TAL CAN	NJE

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-163033/6		240-163033		12/31/2014 16:21	1	TAL CAN	TJL1
P:625	LCS 240-163064/3-A		240-163142	240-163064	01/02/2015 09:01	1	TAL CAN	JDR
A:625	LCS 240-163064/3-A		240-163142	240-163064	01/05/2015 09:18	1	TAL CAN	MRU
P:608	LCS 240-163143/5-A		240-163212	240-163143	01/05/2015 06:55	1	TAL CAN	EMB
A:608	LCS 240-163143/5-A		240-163212	240-163143	01/05/2015 14:40	1	TAL CAN	RSK
P:608	LCS 240-163139/5-A		240-163275	240-163139	01/05/2015 06:51	1	TAL CAN	EMB
A:608	LCS 240-163139/5-A		240-163275	240-163139	01/06/2015 16:21	1	TAL CAN	BPM
P:3005A	LCS 240-163105/2-A		240-163292	240-163105	01/02/2015 12:38	1	TAL CAN	ADS
A:6010C	LCS 240-163105/2-A		240-163292	240-163105	01/06/2015 11:47	1	TAL CAN	KLC
P:7470A	LCS 240-163106/2-A		240-163340	240-163106	01/02/2015 13:40	1	TAL CAN	ADS
A:7470A	LCS 240-163106/2-A		240-163340	240-163106	01/06/2015 11:24	1	TAL CAN	AMM2
P:1664A	LCS 240-163551/2-A		240-163562	240-163551	01/08/2015 08:28	1	TAL CAN	NJE
A:1664A	LCS 240-163551/2-A		240-163562	240-163551	01/08/2015 08:28	1	TAL CAN	NJE
A:4500 H+ B-2000	LCS 240-163027/2		240-163027		12/31/2014 13:26	1	TAL CAN	LCN
A:5210B-2001	LCS 240-163028/3		240-163028		12/31/2014 15:27	1	TAL CAN	NJE
A:5220D-1997	LCS 240-163422/10		240-163422		01/07/2015 11:42	2	TAL CAN	TPH
A:SM 2540D	LCS 240-163172/2		240-163172		01/05/2015 09:02	1	TAL CAN	LCN
P:Distill/CN	LCS 240-163068/2-A		240-163113	240-163068	01/02/2015 09:18	1	TAL CAN	SEM
A:SM 4500 CN E	LCS 240-163068/2-A		240-163113	240-163068	01/02/2015 13:09	1	TAL CAN	SEM
P:365.2/365.3/365	LCS 240-163261/11-A		240-163351	240-163261	01/06/2015 06:12	1	TAL CAN	TPH
A:SM4500 P E-1999	LCS 240-163261/11-A		240-163351	240-163261	01/06/2015 13:14	1	TAL CAN	TPH
P:SM4500Norg_C	LCS 240-163330/2-A		240-163488	240-163330	01/06/2015 12:04	1	TAL CAN	JAK
A:SM4500_NH3_C	LCS 240-163330/2-A		240-163488	240-163330	01/07/2015 14:46	1	TAL CAN	JAK

Client: Tetra Tech, Inc. Job Number: 240-45978-1

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Lab ID: MRL **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 4500 CN E	MRL 240-163113/6		240-163113		01/02/2015 12:27	1	TAL CAN	SEM

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 12/31/2014 09:30 Received Date/Time: 12/31/2014 12:51

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-45981-A-1 MS		240-163033		12/31/2014 18:37	1	TAL CAN	TJL1
P:7470A	240-45955-C-1-E MS		240-163340	240-163106	01/02/2015 13:40	1	TAL CAN	ADS
A:7470A	240-45955-C-1-E MS		240-163340	240-163106	01/06/2015 11:28	1	TAL CAN	AMM2
P:1664A	240-45927-I-1-A MS		240-163562	240-163551	01/08/2015 08:28	1	TAL CAN	NJE
A:1664A	240-45927-I-1-A MS		240-163562	240-163551	01/08/2015 08:28	1	TAL CAN	NJE
A:5220D-1997	240-46034-D-1 MS		240-163422		01/07/2015 11:54	1	TAL CAN	TPH
P:Distill/CN	240-45955-B-4-B MS		240-163113	240-163068	01/02/2015 09:18	1	TAL CAN	SEM
A:SM 4500 CN E	240-45955-B-4-B MS		240-163113	240-163068	01/02/2015 13:09	1	TAL CAN	SEM
P:365.2/365.3/365	190-6152-B-1-F MS		240-163351	240-163261	01/06/2015 06:15	1	TAL CAN	TPH
A:SM4500 P E-1999	190-6152-B-1-F MS		240-163351	240-163261	01/06/2015 13:14	1	TAL CAN	TPH

Lab ID: MSD **Client ID: N/A**

Sample Date/Time: 12/24/2014 11:45 Received Date/Time: 12/31/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7470A	240-45955-C-1-F MSD		240-163340	240-163106	01/02/2015 13:40	1	TAL CAN	ADS
A:7470A	240-45955-C-1-F MSD		240-163340	240-163106	01/06/2015 11:29	1	TAL CAN	AMM2
P:Distill/CN	240-45955-B-4-C MSD		240-163113	240-163068	01/02/2015 09:18	1	TAL CAN	SEM
A:SM 4500 CN E	240-45955-B-4-C MSD		240-163113	240-163068	01/02/2015 13:09	1	TAL CAN	SEM
P:365.2/365.3/365	190-6152-B-1-G MSD		240-163351	240-163261	01/06/2015 06:16	1	TAL CAN	TPH
A:SM4500 P E-1999	190-6152-B-1-G MSD		240-163351	240-163261	01/06/2015 13:14	1	TAL CAN	TPH

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 12/30/2014 07:00 Received Date/Time: 12/31/2014 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-45960-B-1 DU		240-163027		12/31/2014 13:28	1	TAL CAN	LCN
A:SM 2540D	240-46004-A-1 DU		240-163172		01/05/2015 09:02	1	TAL CAN	LCN

Client: Tetra Tech, Inc. Job Number: 240-45978-1

Laboratory Chronicle

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
COD LCS_00005	04/09/15	10/09/14	DIWATER, Lot 1111	1 L	WCWIBBYDEMAND_00005	1000 mL	Chemical Oxygen Demand	136 mg/L
.WCWIBBYDEMAND_00005	07/31/16		WIBBY, Lot 8136-07		(Purchased Reagent)		Chemical Oxygen Demand	136 mL
EX10PPMSPK_00014	12/06/15	08/28/14	MEOH, Lot 0000085233	1000 mL	EXPCB1016_00005	2 mL	Aroclor-1016	10 ug/mL
					EXPCB1260_00006	2 mL	Aroclor-1260	10 ug/mL
.EXPCB1016_00005	12/06/15		AccuStandard, Inc., Lot B5120059		(Purchased Reagent)		Aroclor-1016	5000 ug/mL
.EXPCB1260_00006	01/25/23		AccuStandard, Lot B3060258-1A		(Purchased Reagent)		Aroclor-1260	5000 ug/mL
EX2/.2SURRW_00047	06/30/16	12/04/14	MEOH, Lot 0000062345	2000 mL	EX2/.2SURR_00017	2 mL	DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.EX2/.2SURR_00017	06/30/16		Ultra Scientific, Lot CK-1735		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
EXBNASPIKE_00033	04/01/15	12/11/14	MEOH, Lot 0000085233	200 mL	SMLIST1 S1_00004	4 mL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,3-Dinitrobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							1-Methylnaphthalene	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,3,4,6-Tetrachlorophenol	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Hexadecane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
					SMLIST1 S2_00008	4 mL	3,3'-Dichlorobenzidine	40 ug/mL
							Atrazine	40 ug/mL
							Benzidine	40 ug/mL
							Caprolactam	40 ug/mL
					SMLIST1 S7_00001	4 mL	N-Nitrosodiphenylamine	40 ug/mL
.SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,3-Dinitrobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							1-Methylnaphthalene	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,3,4,6-Tetrachlorophenol	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Hexadecane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
.SMLIST1 S2_00008	07/30/15		Restek, Lot A0100824		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Atrazine	2000 ug/mL
							Benzidine	2000 ug/mL
							Caprolactam	2000 ug/mL
.SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
EXBNASURR W_00019	06/10/16	12/13/14	MEOH, Lot 85233	2000 mL	SMLIST1 SURR_00003	8 mL	2,4,6-Tribromophenol	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol	20 ug/mL
							Nitrobenzene-d5	20 ug/mL
							Phenol-d5	20 ug/mL
							Terphenyl-d14	20 ug/mL
.SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
exNPDES spike_00002	02/28/18	11/03/14	MEOH, Lot 82533	200 mL	exNPDES stock_00001	0.1 mL	4,4'-DDD	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-DDE	1 ug/mL
							4,4'-DDT	1 ug/mL
							Aldrin	1 ug/mL
							alpha-BHC	1 ug/mL
							alpha-Chlordane	1 ug/mL
							beta-BHC	1 ug/mL
							delta-BHC	1 ug/mL
							Dieldrin	1 ug/mL
							Endosulfan I	1 ug/mL
							Endosulfan II	1 ug/mL
							Endosulfan sulfate	1 ug/mL
							Endrin	1 ug/mL
							Endrin aldehyde	1 ug/mL
							Endrin ketone	1 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							gamma-Chlordane	1 ug/mL
							Heptachlor	1 ug/mL
							Heptachlor epoxide	1 ug/mL
							Methoxychlor	1 ug/mL
.exNPDES stock_00001	02/28/18		Restek, Lot A0101246		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
K2S2O8_00017	07/27/16	12/11/14	DIWATER, Lot DIWATER	2.5 L	MTK2S208_00017	125 g	Potassium persulfate	0.05 g/g
.MTK2S208_00017	07/27/16		Macron, Lot 0000046094		(Purchased Reagent)		Potassium persulfate	1 g/g
MT6500ICV_00022	05/06/15	11/06/14	DIWATER, Lot DIWATER	1000 mL	MTTRICV3_00004	6 mL	Chromium	1500 ug/L
							Copper	1500 ug/L
							Nickel	1500 ug/L
							Zinc	1500 ug/L
					MTTRICV5_00010	1.5 mL	Cadmium	375 ug/L
							Lead	375 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					MTTRICVAG_00005	7.5 mL	Silver	750 ug/L
.MTTRICV3_00004	06/01/15		CPI, Lot 1060597		(Purchased Reagent)		Chromium	250 mg/L
							Copper	250 mg/L
							Nickel	250 mg/L
							Zinc	250 mg/L
.MTTRICV5_00010	06/01/15		CPI, Lot 1060598		(Purchased Reagent)		Cadmium	250 ug/mL
							Lead	250 ug/mL
.MTTRICVAG_00005	10/01/15		CPI, Lot 1065516		(Purchased Reagent)		Silver	100 mg/L
MTAGSPIKEW_00045	05/18/15	11/18/14	DIWATER, Lot DIWATER	1000 mL	MTAG_00005	2.5 mL	Silver	2500 ug/L
					MTTMHNO3_00044	50 mL	Nitric acid	50000000 ug/L
.MTAG_00005	12/27/15		HIGH PURITY STANDARDS, Lot 1401302		(Purchased Reagent)		Silver	1000 ug/mL
.MTTMHNO3_00044	11/06/16		JT Baker/Avantor, Lot 0000084115		(Purchased Reagent)		Nitric acid	100 %
MTH2S04_00021	10/21/16		Macron, Lot 0000080085		(Purchased Reagent)		Sulfuric acid	100 %
MTHGCALW_00803	01/02/15	01/02/15	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00015	1 mL	Mercury	100 ug/L
					MTTMHNO3_00046	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00015	12/01/15		INORGANIC VENTURES, Lot H2-HG02126		(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00046	12/03/16		Macron/Avantor, Lot 0000076768		(Purchased Reagent)		Nitric acid	100 %
MTHGCALW_00804	01/05/15	01/05/15	DIWATER, Lot DIWATER	100 mL	MTHGCAL_00015	1 mL	Mercury	100 ug/L
					MTTMHNO3_00046	0.15 mL	Nitric acid	1500000 ug/L
.MTHGCAL_00015	12/01/15		INORGANIC VENTURES, Lot H2-HG02126		(Purchased Reagent)		Mercury	10 ug/mL
.MTTMHNO3_00046	12/03/16		Macron/Avantor, Lot 0000076768		(Purchased Reagent)		Nitric acid	100 %
MTHgStd_00011	07/31/15		Teledyne Leeman, Lot 1368801		(Purchased Reagent)		Mercury	1 ug/mL
MTICP1_00036	05/18/15	11/18/14	DIWATER, Lot DI WATER	1000 mL	MTICPSPIKE1A_00007	50 mL	Al	100000 ug/L
							As	100000 ug/L
							B	50000 ug/L
							Ba	100000 ug/L
							Be	2500 ug/L
							Cadmium	2500 ug/L
							Chromium	10000 ug/L
							Co	25000 ug/L
							Copper	12500 ug/L
							Fe	50000 ug/L
							Lead	25000 ug/L
							Mn	25000 ug/L
							Nickel	25000 ug/L
							Se	100000 ug/L
							Tl	100000 ug/L
							V	25000 ug/L
							Zinc	25000 ug/L
					MTICPSPIKEB_00007	50 mL	Mo	50000 ug/L
							Sb	25000 ug/L
							Sn	100000 ug/L
							Ti	50000 ug/L
					MTICPSpikeOdd_00004	50 mL	Li	50000 ug/L
							Si	50000 ug/L
							SiO2	107000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Sr	50000 ug/L
					MTTMHNO3_00044	50 mL	Nitric acid	50000000 ug/L
.MTICPSPIKE1A_00007	01/27/15	High Purity Standards, Lot 1402729			(Purchased Reagent)		Al	2000 ug/mL
							As	2000 ug/mL
							B	1000 ug/mL
							Ba	2000 ug/mL
							Be	50 ug/mL
							Cadmium	50 ug/mL
							Chromium	200 ug/mL
							Co	500 ug/mL
							Copper	250 ug/mL
							Fe	1000 ug/mL
							Lead	500 ug/mL
							Mn	500 ug/mL
							Nickel	500 ug/mL
							Se	2000 ug/mL
							Tl	2000 ug/mL
							V	500 ug/mL
							Zinc	500 ug/mL
.MTICPSPIKEB_00007	01/27/15	High Purity Standards, Lot 1402315			(Purchased Reagent)		Mo	1000 ug/mL
							Sb	500 ug/mL
							Sn	2000 ug/mL
							Ti	1000 ug/mL
.MTICPSpikeOdd_00004	01/27/15	High Purity Standards, Lot 1402316			(Purchased Reagent)		Li	1000 ug/mL
							Si	1000 ug/mL
							SiO2	2140 ug/mL
							Sr	1000 ug/mL
.MTTMHNO3_00044	11/06/16	JT Baker/Avantor, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
MTICP2A_00045	05/21/15	11/21/14	DIWATER, Lot DIWATER	1000 mL	MTTMHNO3_00044	50 mL	Nitric acid	50000 mg/L
					MTTRCAL2_00010	250 mL	Ca	2500 mg/L
							K	2500 mg/L
							Mg	2500 mg/L
							Na	2500 mg/L
.MTTMHNO3_00044	11/06/16	JT Baker/Avantor, Lot 0000084115			(Purchased Reagent)		Nitric acid	100 %
.MTTRCAL2_00010	11/19/15	HIGH PURITY STANDARDS, Lot 1424003			(Purchased Reagent)		Ca	10000 ug/mL
							K	10000 ug/mL
							Mg	10000 ug/mL
							Na	10000 ug/mL
MTICPCCV_00037	06/18/15	12/18/14	DIWATER, Lot DIWATER	2000 mL	MTICPCCV1_00006	200 mL	Cadmium	500 ug/L
							Chromium	2000 ug/L
							Copper	2000 ug/L
							Lead	500 ug/L
							Nickel	2000 ug/L
							Zinc	2000 ug/L
					MTICPCCV2_00006	200 mL	Silver	1000 ug/L
.MTICPCCV1_00006	10/01/15	INORGANIC VENTURES, Lot H2-MEB523064			(Purchased Reagent)		Cadmium	5000 ug/L
							Chromium	20000 ug/L

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Copper	20000 ug/L
							Lead	5000 ug/L
							Nickel	20000 ug/L
							Zinc	20000 ug/L
.MTICPCCV2_00006	10/01/15	INORGANIC VENTURES, Lot H2-MEB523065			(Purchased Reagent)		Silver	10000 ug/L
MTICPICSABW_00006	05/06/15	11/06/14	DIWATER, Lot DIWATER	1000 mL	MTICPICSAB1_00003	100 mL	Al	500000 ug/L
							As	1000 ug/L
							B	500 ug/L
							Ba	500 ug/L
							Be	500 ug/L
							Ca	500000 ug/L
							Cadmium	1000 ug/L
							Chromium	500 ug/L
							Co	500 ug/L
							Copper	500 ug/L
							Fe	200000 ug/L
							K	10000 ug/L
							Lead	1000 ug/L
							Li	500 ug/L
							Mg	500000 ug/L
							Mn	500 ug/L
							Na	10000 ug/L
							Nickel	1000 ug/L
							Se	1000 ug/L
							Sr	1500 ug/L
							Tl	1000 ug/L
							V	500 ug/L
							Zinc	1000 ug/L
					MTICPICSAB2_00003	100 mL	Mo	1000 ug/L
							Sb	1000 ug/L
							Si	10000 ug/L
							Silver	1000 ug/L
							Sn	500 ug/L
							Ti	500 ug/L
.MTICPICSAB1_00003	10/01/15	INORGANIC VENTURES, Lot H2-MEB546050			(Purchased Reagent)		Al	5000000 ug/L
							As	10000 ug/L
							B	5000 ug/L
							Ba	5000 ug/L
							Be	5000 ug/L
							Ca	5000000 ug/L
							Cadmium	10000 ug/L
							Chromium	5000 ug/L
							Co	5000 ug/L
							Copper	5000 ug/L
							Fe	2000000 ug/L
							K	100000 ug/L
							Lead	10000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Li	5000 ug/L
							Mg	5000000 ug/L
							Mn	5000 ug/L
							Na	100000 ug/L
							Nickel	10000 ug/L
							Se	10000 ug/L
							Sr	15000 ug/L
							Tl	10000 ug/L
							V	5000 ug/L
							Zinc	10000 ug/L
.MTICPICSAB2_00003	10/01/15	INORGANIC VENTURES, Lot H2-MEB546051			(Purchased Reagent)		Mo	10000 ug/L
							Sb	10000 ug/L
							Si	100000 ug/L
							Silver	10000 ug/L
							Sn	5000 ug/L
							Ti	5000 ug/L
MTK2S208RGNT_00054	04/16/16	04/16/14	DIWATER, Lot DIWATER	1 L	MTK2S208_00011	100 g	Potassium persulfate	0.1 g/g
.MTK2S208_00011	10/10/17	Fisher, Lot 120909			(Purchased Reagent)		Potassium persulfate	1 g/g
MTKMN04W_00076	11/24/19	12/17/14	DIWATER, Lot DIWATER	2.5 L	MTKMN04_00020	125 g	Potassium Permanganate	0.05 g/g
.MTKMN04_00020	11/24/19	Fisher, Lot 121666			(Purchased Reagent)		Potassium Permanganate	1 g/g
MTTMHCL_00054	12/10/16	Macron/Avantor, Lot 0000086340			(Purchased Reagent)		Hydrogen Chloride	100 %
MTTMHNO3_00046	12/03/16	Macron/Avantor, Lot 0000076768			(Purchased Reagent)		Nitric acid	100 %
MTTMHNO3_00047	12/19/16	Macron/Avantor, Lot 0000093717			(Purchased Reagent)		Nitric acid	100 %
MTTRCRIC_00024	05/01/15	12/01/14	DIWATER, Lot DIWATER	500 mL	MTTRCRI6010C_00010	25 mL	Cadmium	5 ug/L
							Chromium	10 ug/L
							Copper	20 ug/L
							Lead	10 ug/L
							Nickel	40 ug/L
							Silver	10 ug/L
							Zinc	50 ug/L
.MTTRCRI6010C_00010	12/01/15	Inorganic Ventures, Lot H2-MEB552050			(Purchased Reagent)		Cadmium	100 ug/L
							Chromium	200 ug/L
							Copper	400 ug/L
							Lead	200 ug/L
							Nickel	800 ug/L
							Silver	200 ug/L
							Zinc	1000 ug/L
MTTRICSAW_00025	06/01/15	12/23/14	DIWATER, Lot DIWATER	1000 mL	MTTRICSA_00012	100 mL	Al	500000 ug/L
							Ca	500000 ug/L
							Fe	200000 ug/L
							Mg	500000 ug/L
.MTTRICSA_00012	06/01/15	INORGANIC VENTURES, Lot G2-MEB491156			(Purchased Reagent)		Al	5000 ug/mL
							Ca	5000 ug/mL
							Fe	2000 ug/mL
							Mg	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
P194-525_00011	04/10/15		ERA, Lot 8144-11		(Purchased Reagent)		Nitrogen, Kjeldahl	7.77 mg/L
							Phosphorus as PO4	5.17 mg/L
							Total Phosphorus as P	1.69 mg/L
SG 1660 ICV_00007	07/23/14	07/23/13	HEXANE, Lot 0000036784	10 mL	SG 1016 ICV_00006	1 mL	Aroclor-1016	10 ug/mL
					SG 1260 ICV_00007	1 mL	Aroclor-1260	10 ug/mL
.SG 1016 ICV_00006	02/29/20		ULTRA, Lot CJ-0176		(Purchased Reagent)		Aroclor-1016	100 ug/mL
.SG 1260 ICV_00007	12/31/14		ULTRA, Lot CC-3829		(Purchased Reagent)		Aroclor-1260	100 ug/mL
SG1232@0.05PP_00010	12/02/14	06/02/14	HEXANE, Lot 00000068605	100 mL	SG1232@10ppm_00004	0.5 mL	PCB-1232 Peak 1	0.05 ug/mL
							PCB-1232 Peak 2	0.05 ug/mL
							PCB-1232 Peak 3	0.05 ug/mL
							PCB-1232 Peak 4	0.05 ug/mL
							PCB-1232 Peak 5	0.05 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@0.1PPM_00008	12/02/14	06/02/14	HEXANE, Lot 00000068605	100 mL	SG1232@10ppm_00004	1 mL	PCB-1232 Peak 1	0.1 ug/mL
							PCB-1232 Peak 2	0.1 ug/mL
							PCB-1232 Peak 3	0.1 ug/mL
							PCB-1232 Peak 4	0.1 ug/mL
							PCB-1232 Peak 5	0.1 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@0.2PPM_00008	12/02/14	06/02/14	HEXANE, Lot 00000068605	100 mL	SG1232@10ppm_00004	2 mL	PCB-1232 Peak 1	0.2 ug/mL
							PCB-1232 Peak 2	0.2 ug/mL
							PCB-1232 Peak 3	0.2 ug/mL
							PCB-1232 Peak 4	0.2 ug/mL
							PCB-1232 Peak 5	0.2 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@0.5PPM_00015	09/01/14	03/01/14	HEXANE, Lot 1285393	100 mL	SG1232@10ppm_00004	5 mL	PCB-1232 Peak 1	0.5 ug/mL
							PCB-1232 Peak 2	0.5 ug/mL
							PCB-1232 Peak 3	0.5 ug/mL
							PCB-1232 Peak 4	0.5 ug/mL
							PCB-1232 Peak 5	0.5 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@1.0PPM_00008	12/02/14	06/02/14	HEXANE, Lot 00000068605	100 mL	SG1232@10ppm_00004	10 mL	PCB-1232 Peak 1	1 ug/mL
							PCB-1232 Peak 2	1 ug/mL
							PCB-1232 Peak 3	1 ug/mL
							PCB-1232 Peak 4	1 ug/mL
							PCB-1232 Peak 5	1 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1232@2.0PPM_00008	12/02/14	06/02/14	HEXANE, Lot 00000068605	100 mL	SG1232@10ppm_00004	20 mL	PCB-1232 Peak 1	2 ug/mL
							PCB-1232 Peak 2	2 ug/mL
							PCB-1232 Peak 3	2 ug/mL
							PCB-1232 Peak 4	2 ug/mL
							PCB-1232 Peak 5	2 ug/mL
.SG1232@10ppm_00004	12/02/14	12/02/13	HEXANE, Lot 00000056763	100 mL	SGPCB1232STD_00006	1 mL	PCB-1232 Peak 1	10 ug/mL
							PCB-1232 Peak 2	10 ug/mL
							PCB-1232 Peak 3	10 ug/mL
							PCB-1232 Peak 4	10 ug/mL
							PCB-1232 Peak 5	10 ug/mL
..SGPCB1232STD_00006	11/30/18		restek, Lot A090290		(Purchased Reagent)		PCB-1232 Peak 1	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1232 Peak 2	1000 ug/mL
							PCB-1232 Peak 3	1000 ug/mL
							PCB-1232 Peak 4	1000 ug/mL
							PCB-1232 Peak 5	1000 ug/mL
SG1242@.05ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1242@10ppm_00004	0.5 mL	PCB-1242 Peak 1	0.05 ug/mL
							PCB-1242 Peak 2	0.05 ug/mL
							PCB-1242 Peak 3	0.05 ug/mL
							PCB-1242 Peak 4	0.05 ug/mL
							PCB-1242 Peak 5	0.05 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18		Restek, Lot A085599		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@0.1ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1242@10ppm_00004	1 mL	PCB-1242 Peak 1	0.1 ug/mL
							PCB-1242 Peak 2	0.1 ug/mL
							PCB-1242 Peak 3	0.1 ug/mL
							PCB-1242 Peak 4	0.1 ug/mL
							PCB-1242 Peak 5	0.1 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18		Restek, Lot A085599		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@0.2ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1242@10ppm_00004	2 mL	PCB-1242 Peak 1	0.2 ug/mL
							PCB-1242 Peak 2	0.2 ug/mL
							PCB-1242 Peak 3	0.2 ug/mL
							PCB-1242 Peak 4	0.2 ug/mL
							PCB-1242 Peak 5	0.2 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18		Restek, Lot A085599		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@0.5ppm_00011	06/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242@10ppm_00004	5 mL	PCB-1242 Peak 1	0.5 ug/mL
							PCB-1242 Peak 2	0.5 ug/mL
							PCB-1242 Peak 3	0.5 ug/mL
							PCB-1242 Peak 4	0.5 ug/mL
							PCB-1242 Peak 5	0.5 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18		Restek, Lot A085599		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@1.0ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000036784	100 mL	SG1242@10ppm_00004	10 mL	PCB-1242 Peak 1	1 ug/mL
							PCB-1242 Peak 2	1 ug/mL
							PCB-1242 Peak 3	1 ug/mL
							PCB-1242 Peak 4	1 ug/mL
							PCB-1242 Peak 5	1 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18		Restek, Lot A085599		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL
SG1242@2.0ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1242@10ppm_00004	20 mL	PCB-1242 Peak 1	2 ug/mL
							PCB-1242 Peak 2	2 ug/mL
							PCB-1242 Peak 3	2 ug/mL
							PCB-1242 Peak 4	2 ug/mL
							PCB-1242 Peak 5	2 ug/mL
.SG1242@10ppm_00004	12/23/14	12/23/13	HEXANE, Lot 0000056763	100 mL	SG1242_00004	1 mL	PCB-1242 Peak 1	10 ug/mL
							PCB-1242 Peak 2	10 ug/mL
							PCB-1242 Peak 3	10 ug/mL
							PCB-1242 Peak 4	10 ug/mL
							PCB-1242 Peak 5	10 ug/mL
..SG1242_00004	03/30/18		Restek, Lot A085599		(Purchased Reagent)		PCB-1242 Peak 1	1000 ug/mL
							PCB-1242 Peak 2	1000 ug/mL
							PCB-1242 Peak 3	1000 ug/mL
							PCB-1242 Peak 4	1000 ug/mL
							PCB-1242 Peak 5	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SG1248@.05ppm_00009	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1248@10ppm_00005	0.5 mL	PCB-1248 Peak 1	0.05 ug/mL
							PCB-1248 Peak 2	0.05 ug/mL
							PCB-1248 Peak 3	0.05 ug/mL
							PCB-1248 Peak 4	0.05 ug/mL
							PCB-1248 Peak 5	0.05 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.1PPM_00008	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1248@10ppm_00005	1 mL	PCB-1248 Peak 1	0.1 ug/mL
							PCB-1248 Peak 2	0.1 ug/mL
							PCB-1248 Peak 3	0.1 ug/mL
							PCB-1248 Peak 4	0.1 ug/mL
							PCB-1248 Peak 5	0.1 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.2ppm_00008	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1248@10ppm_00005	2 mL	PCB-1248 Peak 1	0.2 ug/mL
							PCB-1248 Peak 2	0.2 ug/mL
							PCB-1248 Peak 3	0.2 ug/mL
							PCB-1248 Peak 4	0.2 ug/mL
							PCB-1248 Peak 5	0.2 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@0.5ppm_00011	06/23/14	12/23/13	HEXANE, Lot 00000056763	100 mL	SG1248@10ppm_00005	5 mL	PCB-1248 Peak 1	0.5 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1248 Peak 2	0.5 ug/mL
							PCB-1248 Peak 3	0.5 ug/mL
							PCB-1248 Peak 4	0.5 ug/mL
							PCB-1248 Peak 5	0.5 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@1.0ppm_00007	07/03/14	01/03/14	HEXANE, Lot 0000056763	100 mL	SG1248@10ppm_00005	10 mL	PCB-1248 Peak 1	1 ug/mL
							PCB-1248 Peak 2	1 ug/mL
							PCB-1248 Peak 3	1 ug/mL
							PCB-1248 Peak 4	1 ug/mL
							PCB-1248 Peak 5	1 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1248@2.0ppm_00007	07/03/14	07/03/13	HEXANE, Lot 0000056763	100 mL	SG1248@10ppm_00005	20 mL	PCB-1248 Peak 1	2 ug/mL
							PCB-1248 Peak 2	2 ug/mL
							PCB-1248 Peak 3	2 ug/mL
							PCB-1248 Peak 4	2 ug/mL
							PCB-1248 Peak 5	2 ug/mL
.SG1248@10ppm_00005	12/23/14	12/23/13	Hexane, Lot 0000056763	100 mL	SG1248_00003	1 mL	PCB-1248 Peak 1	10 ug/mL
							PCB-1248 Peak 2	10 ug/mL
							PCB-1248 Peak 3	10 ug/mL
							PCB-1248 Peak 4	10 ug/mL
							PCB-1248 Peak 5	10 ug/mL
..SG1248_00003	04/30/18		Restek, Lot A086044		(Purchased Reagent)		PCB-1248 Peak 1	1000 ug/mL
							PCB-1248 Peak 2	1000 ug/mL
							PCB-1248 Peak 3	1000 ug/mL
							PCB-1248 Peak 4	1000 ug/mL
							PCB-1248 Peak 5	1000 ug/mL
SG1262@.05PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	0.5 mL	PCB-1262 Peak 1	0.05 ug/mL
							PCB-1262 Peak 2	0.05 ug/mL
							PCB-1262 Peak 3	0.05 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1262 Peak 4	0.05 ug/mL
							PCB-1262 Peak 5	0.05 ug/mL
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1262@0.1PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	1 mL	PCB-1262 Peak 1	0.1 ug/mL
							PCB-1262 Peak 2	0.1 ug/mL
							PCB-1262 Peak 3	0.1 ug/mL
							PCB-1262 Peak 4	0.1 ug/mL
							PCB-1262 Peak 5	0.1 ug/mL
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1262@0.2PPM_00009	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	2 mL	PCB-1262 Peak 1	0.2 ug/mL
							PCB-1262 Peak 2	0.2 ug/mL
							PCB-1262 Peak 3	0.2 ug/mL
							PCB-1262 Peak 4	0.2 ug/mL
							PCB-1262 Peak 5	0.2 ug/mL
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1262@0.5PPM_00009	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	5 mL	PCB-1262 Peak 1	0.5 ug/mL
							PCB-1262 Peak 2	0.5 ug/mL
							PCB-1262 Peak 3	0.5 ug/mL
							PCB-1262 Peak 4	0.5 ug/mL
							PCB-1262 Peak 5	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1262@1.0PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	10 mL	PCB-1262 Peak 1	1 ug/mL
							PCB-1262 Peak 2	1 ug/mL
							PCB-1262 Peak 3	1 ug/mL
							PCB-1262 Peak 4	1 ug/mL
							PCB-1262 Peak 5	1 ug/mL
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1262@2.0PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1262@10PPM_00006	20 mL	PCB-1262 Peak 1	2 ug/mL
							PCB-1262 Peak 2	2 ug/mL
							PCB-1262 Peak 3	2 ug/mL
							PCB-1262 Peak 4	2 ug/mL
							PCB-1262 Peak 5	2 ug/mL
.SG1262@10PPM_00006	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 mL	SGPCB1262STD_00004	1 mL	PCB-1262 Peak 1	10 ug/mL
							PCB-1262 Peak 2	10 ug/mL
							PCB-1262 Peak 3	10 ug/mL
							PCB-1262 Peak 4	10 ug/mL
							PCB-1262 Peak 5	10 ug/mL
..SGPCB1262STD_00004	03/31/19		restek, Lot A092660		(Purchased Reagent)		PCB-1262 Peak 1	1000 ug/mL
							PCB-1262 Peak 2	1000 ug/mL
							PCB-1262 Peak 3	1000 ug/mL
							PCB-1262 Peak 4	1000 ug/mL
							PCB-1262 Peak 5	1000 ug/mL
SG1268@.05ppm_00010	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	0.5 mL	PCB-1268 Peak 1	0.05 ug/mL
							PCB-1268 Peak 2	0.05 ug/mL
							PCB-1268 Peak 3	0.05 ug/mL
							PCB-1268 Peak 4	0.05 ug/mL
							PCB-1268 Peak 5	0.05 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG1268@.1PPM_00011	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	1 mL	PCB-1268 Peak 1	0.1 ug/mL
							PCB-1268 Peak 2	0.1 ug/mL
							PCB-1268 Peak 3	0.1 ug/mL
							PCB-1268 Peak 4	0.1 ug/mL
							PCB-1268 Peak 5	0.1 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG1268@0.2ppm_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	2 mL	PCB-1268 Peak 1	0.2 ug/mL
							PCB-1268 Peak 2	0.2 ug/mL
							PCB-1268 Peak 3	0.2 ug/mL
							PCB-1268 Peak 4	0.2 ug/mL
							PCB-1268 Peak 5	0.2 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG1268@0.5ppm_00010	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	5 mL	PCB-1268 Peak 1	0.5 ug/mL
							PCB-1268 Peak 2	0.5 ug/mL
							PCB-1268 Peak 3	0.5 ug/mL
							PCB-1268 Peak 4	0.5 ug/mL
							PCB-1268 Peak 5	0.5 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG1268@1.0PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	10 mL	PCB-1268 Peak 1	1 ug/mL
							PCB-1268 Peak 2	1 ug/mL
							PCB-1268 Peak 3	1 ug/mL
							PCB-1268 Peak 4	1 ug/mL
							PCB-1268 Peak 5	1 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG1268@2.0PPM_00008	10/25/14	04/25/14	HEXANE, Lot 0000065259	100 mL	SG1268@10ppm_00008	20 mL	PCB-1268 Peak 1	2 ug/mL
							PCB-1268 Peak 2	2 ug/mL
							PCB-1268 Peak 3	2 ug/mL
							PCB-1268 Peak 4	2 ug/mL
							PCB-1268 Peak 5	2 ug/mL
.SG1268@10ppm_00008	04/25/15	04/25/14	HEXANE, Lot 0000065259	100 uL	SGpcb1268std_00004	1 ug/L	PCB-1268 Peak 1	10 ug/mL
							PCB-1268 Peak 2	10 ug/mL
							PCB-1268 Peak 3	10 ug/mL
							PCB-1268 Peak 4	10 ug/mL
							PCB-1268 Peak 5	10 ug/mL
..SGpcb1268std_00004	01/31/19		Restek, Lot a091468		(Purchased Reagent)		PCB-1268 Peak 1	1000 ug/mL
							PCB-1268 Peak 2	1000 ug/mL
							PCB-1268 Peak 3	1000 ug/mL
							PCB-1268 Peak 4	1000 ug/mL
							PCB-1268 Peak 5	1000 ug/mL
SG1660@.05PPM_00008	08/24/14	02/24/14	HEXANE, Lot 1285393	100 mL	SG1016/1260_00008	0.5 mL	PCB-1016 Peak 1	0.05 ug/mL
							PCB-1016 Peak 2	0.05 ug/mL
							PCB-1016 Peak 3	0.05 ug/mL
							PCB-1016 Peak 4	0.05 ug/mL
							PCB-1016 Peak 5	0.05 ug/mL
							PCB-1260 Peak 1	0.05 ug/mL
							PCB-1260 Peak 2	0.05 ug/mL
							PCB-1260 Peak 3	0.05 ug/mL
							PCB-1260 Peak 4	0.05 ug/mL
							PCB-1260 Peak 5	0.05 ug/mL
					SGPCGSURRSTK_00004	0.125 mL	DCB Decachlorobiphenyl	0.0025 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloro-m-xylene	0.0025 ug/mL
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.2ppm_00008	08/24/14	02/24/14	HEXANE, Lot 1285393	100 mL	SG1016/1260_00008	2 mL	PCB-1016 Peak 1	0.2 ug/mL
							PCB-1016 Peak 2	0.2 ug/mL
							PCB-1016 Peak 3	0.2 ug/mL
							PCB-1016 Peak 4	0.2 ug/mL
							PCB-1016 Peak 5	0.2 ug/mL
							PCB-1260 Peak 1	0.2 ug/mL
							PCB-1260 Peak 2	0.2 ug/mL
							PCB-1260 Peak 3	0.2 ug/mL
							PCB-1260 Peak 4	0.2 ug/mL
							PCB-1260 Peak 5	0.2 ug/mL
					SGPCGSURRSTK_00004	0.5 mL	DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00030	08/24/14	04/30/14	HEXANE, Lot 0000065259	200 mL	SG1016/1260_00008	10 mL	PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					SGPCGSURRSTK_00004	2.5 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@0.5PPM_00040	06/05/15	12/05/14	HEXANE, Lot 0000078259	200 mL	SG1016/1260_00010	10 mL	Aroclor-1016	0.5 ug/mL
							Aroclor-1260	0.5 ug/mL
							PCB-1016 Peak 1	0.5 ug/mL
							PCB-1016 Peak 2	0.5 ug/mL
							PCB-1016 Peak 3	0.5 ug/mL
							PCB-1016 Peak 4	0.5 ug/mL
							PCB-1016 Peak 5	0.5 ug/mL
							PCB-1260 Peak 1	0.5 ug/mL
							PCB-1260 Peak 2	0.5 ug/mL
							PCB-1260 Peak 3	0.5 ug/mL
							PCB-1260 Peak 4	0.5 ug/mL
							PCB-1260 Peak 5	0.5 ug/mL
					SGPCGSURRSTK_00005	2.5 mL	DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SG1016/1260_00010	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SG1016/1260MX_00005	1 mL	Aroclor-1016	10 ug/mL
							Aroclor-1260	10 ug/mL
							PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00005	08/31/18		Restek, Lot a090183		(Purchased Reagent)		Aroclor-1016	1000 ug/mL
							Aroclor-1260	1000 ug/mL
							PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00005	07/31/15	07/31/14	HEXANE, Lot 0000075731	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@1.0PPM_00008	08/24/14	02/24/14	HEXANE, Lot 1285393	100 mL	SG1016/1260_00008	10 mL	PCB-1016 Peak 1	1 ug/mL
							PCB-1016 Peak 2	1 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 3	1 ug/mL
							PCB-1016 Peak 4	1 ug/mL
							PCB-1016 Peak 5	1 ug/mL
							PCB-1260 Peak 1	1 ug/mL
							PCB-1260 Peak 2	1 ug/mL
							PCB-1260 Peak 3	1 ug/mL
							PCB-1260 Peak 4	1 ug/mL
							PCB-1260 Peak 5	1 ug/mL
					SGPCGSURRSTK_00004	2.5 mL	DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18	Restek, Lot a082781			(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19	restek, Lot a092533			(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660@2.0PPM_00008	08/24/14	02/24/14	HEXANE, Lot 1285393	100 mL	SG1016/1260_00008	20 mL	PCB-1016 Peak 1	2 ug/mL
							PCB-1016 Peak 2	2 ug/mL
							PCB-1016 Peak 3	2 ug/mL
							PCB-1016 Peak 4	2 ug/mL
							PCB-1016 Peak 5	2 ug/mL
							PCB-1260 Peak 1	2 ug/mL
							PCB-1260 Peak 2	2 ug/mL
							PCB-1260 Peak 3	2 ug/mL
							PCB-1260 Peak 4	2 ug/mL
							PCB-1260 Peak 5	2 ug/mL
					SGPCGSURRSTK_00004	5 mL	DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG1660STD@0.1_00009	08/24/14	02/24/14	HEXANE, Lot 1285393	100 mL	SG1016/1260_00008	1 mL	PCB-1016 Peak 1	0.1 ug/mL
							PCB-1016 Peak 2	0.1 ug/mL
							PCB-1016 Peak 3	0.1 ug/mL
							PCB-1016 Peak 4	0.1 ug/mL
							PCB-1016 Peak 5	0.1 ug/mL
							PCB-1260 Peak 1	0.1 ug/mL
							PCB-1260 Peak 2	0.1 ug/mL
							PCB-1260 Peak 3	0.1 ug/mL
							PCB-1260 Peak 4	0.1 ug/mL
							PCB-1260 Peak 5	0.1 ug/mL
					SGPCGSURRSTK_00004	0.25 mL	DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL
.SG1016/1260_00008	02/05/15	02/05/14	HEXANE, Lot 0000056763	100 mL	SG1016/1260MX_00004	1 mL	PCB-1016 Peak 1	10 ug/mL
							PCB-1016 Peak 2	10 ug/mL
							PCB-1016 Peak 3	10 ug/mL
							PCB-1016 Peak 4	10 ug/mL
							PCB-1016 Peak 5	10 ug/mL
							PCB-1260 Peak 1	10 ug/mL
							PCB-1260 Peak 2	10 ug/mL
							PCB-1260 Peak 3	10 ug/mL
							PCB-1260 Peak 4	10 ug/mL
							PCB-1260 Peak 5	10 ug/mL
..SG1016/1260MX_00004	08/31/18		Restek, Lot a082781		(Purchased Reagent)		PCB-1016 Peak 1	1000 ug/mL
							PCB-1016 Peak 2	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1016 Peak 3	1000 ug/mL
							PCB-1016 Peak 4	1000 ug/mL
							PCB-1016 Peak 5	1000 ug/mL
							PCB-1260 Peak 1	1000 ug/mL
							PCB-1260 Peak 2	1000 ug/mL
							PCB-1260 Peak 3	1000 ug/mL
							PCB-1260 Peak 4	1000 ug/mL
							PCB-1260 Peak 5	1000 ug/mL
.SGPCGSURRSTK_00004	08/26/14	08/26/13	HEXANE, Lot 0000036784	100 mL	SGPCBSURRMX_00007	1 mL	DCB Decachlorobiphenyl	2 ug/mL
							Tetrachloro-m-xylene	2 ug/mL
..SGPCBSURRMX_00007	03/31/19		restek, Lot a092533		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SG2154@0.05PP_00006	07/22/14	01/22/14	HEXANE, Lot 0000056763	100 mL	SG2154@10ppm_00004	0.5 mL	PCB-1221 Peak 1	0.05 ug/mL
							PCB-1221 Peak 2	0.05 ug/mL
							PCB-1221 Peak 3	0.05 ug/mL
							PCB-1254 Peak 1	0.05 ug/mL
							PCB-1254 Peak 2	0.05 ug/mL
							PCB-1254 Peak 3	0.05 ug/mL
							PCB-1254 Peak 4	0.05 ug/mL
							PCB-1254 Peak 5	0.05 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.2PPM_00007	07/22/14	01/22/14	HEXANE, Lot 0000056763	100 mL	SG2154@10ppm_00004	2 mL	PCB-1221 Peak 1	0.2 ug/mL
							PCB-1221 Peak 2	0.2 ug/mL
							PCB-1221 Peak 3	0.2 ug/mL
							PCB-1254 Peak 1	0.2 ug/mL
							PCB-1254 Peak 2	0.2 ug/mL
							PCB-1254 Peak 3	0.2 ug/mL
							PCB-1254 Peak 4	0.2 ug/mL
							PCB-1254 Peak 5	0.2 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@0.5PPM_00011	07/05/14	01/05/14	HEXANE, Lot 00000056763	100 mL	SG2154@10ppm_00004	5 mL	PCB-1221 Peak 1	0.5 ug/mL
							PCB-1221 Peak 2	0.5 ug/mL
							PCB-1221 Peak 3	0.5 ug/mL
							PCB-1254 Peak 1	0.5 ug/mL
							PCB-1254 Peak 2	0.5 ug/mL
							PCB-1254 Peak 3	0.5 ug/mL
							PCB-1254 Peak 4	0.5 ug/mL
							PCB-1254 Peak 5	0.5 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@1.0PPM_00008	07/22/14	01/22/14	HEXANE, Lot 0000056763	100 mL	SG2154@10ppm_00004	10 mL	PCB-1221 Peak 1	1 ug/mL
							PCB-1221 Peak 2	1 ug/mL
							PCB-1221 Peak 3	1 ug/mL
							PCB-1254 Peak 1	1 ug/mL
							PCB-1254 Peak 2	1 ug/mL
							PCB-1254 Peak 3	1 ug/mL
							PCB-1254 Peak 4	1 ug/mL
							PCB-1254 Peak 5	1 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@2.0PPM_00007	07/22/14	01/22/14	HEXANE, Lot 0000056763	100 mL	SG2154@10ppm_00004	20 mL	PCB-1221 Peak 1	2 ug/mL
							PCB-1221 Peak 2	2 ug/mL
							PCB-1221 Peak 3	2 ug/mL
							PCB-1254 Peak 1	2 ug/mL
							PCB-1254 Peak 2	2 ug/mL
							PCB-1254 Peak 3	2 ug/mL
							PCB-1254 Peak 4	2 ug/mL
							PCB-1254 Peak 5	2 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SG2154@O.1PPM_00007	07/22/14	01/22/14	HEXANE, Lot 0000056763	100 mL	SG2154@10ppm_00004	1 mL	PCB-1221 Peak 1	0.1 ug/mL
							PCB-1221 Peak 2	0.1 ug/mL
							PCB-1221 Peak 3	0.1 ug/mL
							PCB-1254 Peak 1	0.1 ug/mL
							PCB-1254 Peak 2	0.1 ug/mL
							PCB-1254 Peak 3	0.1 ug/mL
							PCB-1254 Peak 4	0.1 ug/mL
							PCB-1254 Peak 5	0.1 ug/mL
.SG2154@10ppm_00004	01/05/15	01/05/14	HEXANE, Lot 0000056763	100 mL	SGPCB1221_00003	1 mL	PCB-1221 Peak 1	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PCB-1221 Peak 2	10 ug/mL
							PCB-1221 Peak 3	10 ug/mL
					SGPCB1254_00006	1 mL	PCB-1254 Peak 1	10 ug/mL
							PCB-1254 Peak 2	10 ug/mL
							PCB-1254 Peak 3	10 ug/mL
							PCB-1254 Peak 4	10 ug/mL
							PCB-1254 Peak 5	10 ug/mL
..SGPCB1221_00003	05/31/18		RESTEK, Lot a086377		(Purchased Reagent)		PCB-1221 Peak 1	1000 ug/mL
							PCB-1221 Peak 2	1000 ug/mL
							PCB-1221 Peak 3	1000 ug/mL
..SGPCB1254_00006	09/30/18		restek, Lot A089103		(Purchased Reagent)		PCB-1254 Peak 1	1000 ug/mL
							PCB-1254 Peak 2	1000 ug/mL
							PCB-1254 Peak 3	1000 ug/mL
							PCB-1254 Peak 4	1000 ug/mL
							PCB-1254 Peak 5	1000 ug/mL
SGPestAB1_00011	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	25 uL	4,4'-DDD	0.005 ug/mL
							4,4'-DDE	0.005 ug/mL
							4,4'-DDT	0.005 ug/mL
							Aldrin	0.005 ug/mL
							alpha-BHC	0.005 ug/mL
							alpha-Chlordane	0.005 ug/mL
							beta-BHC	0.005 ug/mL
							delta-BHC	0.005 ug/mL
							Dieldrin	0.005 ug/mL
							Endosulfan I	0.005 ug/mL
							Endosulfan II	0.005 ug/mL
							Endosulfan sulfate	0.005 ug/mL
							Endrin	0.005 ug/mL
							Endrin aldehyde	0.005 ug/mL
							Endrin ketone	0.005 ug/mL
							gamma-BHC (Lindane)	0.005 ug/mL
							gamma-Chlordane	0.005 ug/mL
							Heptachlor	0.005 ug/mL
							Heptachlor epoxide	0.005 ug/mL
							Methoxychlor	0.005 ug/mL
							DCB Decachlorobiphenyl	0.005 ug/mL
							Tetrachloro-m-xylene	0.005 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB2_00009	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	50 uL	4,4'-DDD	0.01 ug/mL
							4,4'-DDE	0.01 ug/mL
							4,4'-DDT	0.01 ug/mL
							Aldrin	0.01 ug/mL
							alpha-BHC	0.01 ug/mL
							alpha-Chlordane	0.01 ug/mL
							beta-BHC	0.01 ug/mL
							delta-BHC	0.01 ug/mL
							Dieldrin	0.01 ug/mL
							Endosulfan I	0.01 ug/mL
							Endosulfan II	0.01 ug/mL
							Endosulfan sulfate	0.01 ug/mL
							Endrin	0.01 ug/mL
							Endrin aldehyde	0.01 ug/mL
							Endrin ketone	0.01 ug/mL
							gamma-BHC (Lindane)	0.01 ug/mL
							gamma-Chlordane	0.01 ug/mL
							Heptachlor	0.01 ug/mL
							Heptachlor epoxide	0.01 ug/mL
							Methoxychlor	0.01 ug/mL
							DCB Decachlorobiphenyl	0.01 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB3_00014	06/29/15	12/30/14	HEXANE, Lot 80387	200 mL	SGPESTABST_00010	250 uL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							alpha-Chlordane	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							Endrin ketone	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							gamma-Chlordane	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
							Methoxychlor	0.025 ug/mL
							DCB Decachlorobiphenyl	0.025 ug/mL
							Tetrachloro-m-xylene	0.025 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB4_00009	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	250 uL	4,4'-DDD	0.05 ug/mL
							4,4'-DDE	0.05 ug/mL
							4,4'-DDT	0.05 ug/mL
							Aldrin	0.05 ug/mL
							alpha-BHC	0.05 ug/mL
							alpha-Chlordane	0.05 ug/mL
							beta-BHC	0.05 ug/mL
							delta-BHC	0.05 ug/mL
							Dieldrin	0.05 ug/mL
							Endosulfan I	0.05 ug/mL
							Endosulfan II	0.05 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endosulfan sulfate	0.05 ug/mL
							Endrin	0.05 ug/mL
							Endrin aldehyde	0.05 ug/mL
							Endrin ketone	0.05 ug/mL
							gamma-BHC (Lindane)	0.05 ug/mL
							gamma-Chlordane	0.05 ug/mL
							Heptachlor	0.05 ug/mL
							Heptachlor epoxide	0.05 ug/mL
							Methoxychlor	0.05 ug/mL
							DCB Decachlorobiphenyl	0.05 ug/mL
							Tetrachloro-m-xylene	0.05 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB5_00009	06/02/15	01/02/15	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	500 uL	4,4'-DDD	0.1 ug/mL
							4,4'-DDE	0.1 ug/mL
							4,4'-DDT	0.1 ug/mL
							Aldrin	0.1 ug/mL
							alpha-BHC	0.1 ug/mL
							alpha-Chlordane	0.1 ug/mL
							beta-BHC	0.1 ug/mL
							delta-BHC	0.1 ug/mL
							Dieldrin	0.1 ug/mL
							Endosulfan I	0.1 ug/mL
							Endosulfan II	0.1 ug/mL
							Endosulfan sulfate	0.1 ug/mL
							Endrin	0.1 ug/mL
							Endrin aldehyde	0.1 ug/mL
							Endrin ketone	0.1 ug/mL
							gamma-BHC (Lindane)	0.1 ug/mL
							gamma-Chlordane	0.1 ug/mL
							Heptachlor	0.1 ug/mL
							Heptachlor epoxide	0.1 ug/mL
							Methoxychlor	0.1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							DCB Decachlorobiphenyl	0.1 ug/mL
							Tetrachloro-m-xylene	0.1 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPestAB6_00010	06/29/15	12/30/14	HEXANE, Lot 80387	100 mL	SGPESTABST_00010	1 mL	4,4'-DDD	0.2 ug/mL
							4,4'-DDE	0.2 ug/mL
							4,4'-DDT	0.2 ug/mL
							Aldrin	0.2 ug/mL
							alpha-BHC	0.2 ug/mL
							alpha-Chlordane	0.2 ug/mL
							beta-BHC	0.2 ug/mL
							delta-BHC	0.2 ug/mL
							Dieldrin	0.2 ug/mL
							Endosulfan I	0.2 ug/mL
							Endosulfan II	0.2 ug/mL
							Endosulfan sulfate	0.2 ug/mL
							Endrin	0.2 ug/mL
							Endrin aldehyde	0.2 ug/mL
							Endrin ketone	0.2 ug/mL
							gamma-BHC (Lindane)	0.2 ug/mL
							gamma-Chlordane	0.2 ug/mL
							Heptachlor	0.2 ug/mL
							Heptachlor epoxide	0.2 ug/mL
							Methoxychlor	0.2 ug/mL
							DCB Decachlorobiphenyl	0.2 ug/mL
							Tetrachloro-m-xylene	0.2 ug/mL
.SGPESTABST_00010	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	sgpestabcorp1_00004	1 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							alpha-Chlordane	20 ug/mL
							beta-BHC	20 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							Endrin ketone	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							gamma-Chlordane	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
							Methoxychlor	20 ug/mL
					SGPESTSURR_00006	1 mL	DCB Decachlorobiphenyl	20 ug/mL
							Tetrachloro-m-xylene	20 ug/mL
..sgpestabcorp1_00004	06/29/15	12/30/14	HEXANE, Lot 0000080387	10 mL	SGPESTAB #3_00003	1 mL	4,4'-DDD	200 ug/mL
							4,4'-DDE	200 ug/mL
							4,4'-DDT	200 ug/mL
							Aldrin	200 ug/mL
							alpha-BHC	200 ug/mL
							alpha-Chlordane	200 ug/mL
							beta-BHC	200 ug/mL
							delta-BHC	200 ug/mL
							Dieldrin	200 ug/mL
							Endosulfan I	200 ug/mL
							Endosulfan II	200 ug/mL
							Endosulfan sulfate	200 ug/mL
							Endrin	200 ug/mL
							Endrin aldehyde	200 ug/mL
							Endrin ketone	200 ug/mL
							gamma-BHC (Lindane)	200 ug/mL
							gamma-Chlordane	200 ug/mL
							Heptachlor	200 ug/mL
							Heptachlor epoxide	200 ug/mL
							Methoxychlor	200 ug/mL
...SGPESTAB #3_00003	08/31/16		Restek, Lot A090294		(Purchased Reagent)		4,4'-DDD	2000 ug/mL
							4,4'-DDE	2000 ug/mL
							4,4'-DDT	2000 ug/mL
							Aldrin	2000 ug/mL
							alpha-BHC	2000 ug/mL
							alpha-Chlordane	2000 ug/mL
							beta-BHC	2000 ug/mL
							delta-BHC	2000 ug/mL
							Dieldrin	2000 ug/mL
							Endosulfan I	2000 ug/mL
							Endosulfan II	2000 ug/mL
							Endosulfan sulfate	2000 ug/mL
							Endrin	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Endrin aldehyde	2000 ug/mL
							Endrin ketone	2000 ug/mL
							gamma-BHC (Lindane)	2000 ug/mL
							gamma-Chlordane	2000 ug/mL
							Heptachlor	2000 ug/mL
							Heptachlor epoxide	2000 ug/mL
							Methoxychlor	2000 ug/mL
..SGPESTSURR_00006	12/20/19		Restek, Lot A089210		(Purchased Reagent)		DCB Decachlorobiphenyl	200 ug/mL
							Tetrachloro-m-xylene	200 ug/mL
SGPESTABCV_00017	06/01/15	12/01/14	HEXANE, Lot 80387	100 mL	SGPESTABIC_00008	125 uL	4,4'-DDD	0.025 ug/mL
							4,4'-DDE	0.025 ug/mL
							4,4'-DDT	0.025 ug/mL
							Aldrin	0.025 ug/mL
							alpha-BHC	0.025 ug/mL
							beta-BHC	0.025 ug/mL
							delta-BHC	0.025 ug/mL
							Dieldrin	0.025 ug/mL
							Endosulfan I	0.025 ug/mL
							Endosulfan II	0.025 ug/mL
							Endosulfan sulfate	0.025 ug/mL
							Endrin	0.025 ug/mL
							Endrin aldehyde	0.025 ug/mL
							gamma-BHC (Lindane)	0.025 ug/mL
							Heptachlor	0.025 ug/mL
							Heptachlor epoxide	0.025 ug/mL
.SGPESTABIC_00008	06/01/15	12/01/14	HEXANE, Lot 80387	25 mL	SGPESTABIV_00010	0.5 mL	4,4'-DDD	20 ug/mL
							4,4'-DDE	20 ug/mL
							4,4'-DDT	20 ug/mL
							Aldrin	20 ug/mL
							alpha-BHC	20 ug/mL
							beta-BHC	20 ug/mL
							delta-BHC	20 ug/mL
							Dieldrin	20 ug/mL
							Endosulfan I	20 ug/mL
							Endosulfan II	20 ug/mL
							Endosulfan sulfate	20 ug/mL
							Endrin	20 ug/mL
							Endrin aldehyde	20 ug/mL
							gamma-BHC (Lindane)	20 ug/mL
							Heptachlor	20 ug/mL
							Heptachlor epoxide	20 ug/mL
..SGPESTABIV_00010	04/30/16		Ultra Scientific, Lot CL-1069		(Purchased Reagent)		4,4'-DDD	1000 ug/mL
							4,4'-DDE	1000 ug/mL
							4,4'-DDT	1000 ug/mL
							Aldrin	1000 ug/mL
							alpha-BHC	1000 ug/mL
							beta-BHC	1000 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							delta-BHC	1000 ug/mL
							Dieldrin	1000 ug/mL
							Endosulfan I	1000 ug/mL
							Endosulfan II	1000 ug/mL
							Endosulfan sulfate	1000 ug/mL
							Endrin	1000 ug/mL
							Endrin aldehyde	1000 ug/mL
							gamma-BHC (Lindane)	1000 ug/mL
							Heptachlor	1000 ug/mL
							Heptachlor epoxide	1000 ug/mL
SGPESTPEM_00013	03/20/15	09/22/14	HEXANE, Lot 78259	100 mL	SGPESTPEMS_00011	1 mL	4,4'-DDT	0.1 ug/mL
							alpha-BHC	0.01 ug/mL
							beta-BHC	0.01 ug/mL
							Endrin	0.05 ug/mL
							gamma-BHC (Lindane)	0.01 ug/mL
							Methoxychlor	0.25 ug/mL
							Tetrachloro-m-xylene	0.01 ug/mL
.SGPESTPEMS_00011	12/31/15	Restek, Lot A085642			(Purchased Reagent)		4,4'-DDT	10 ug/mL
							alpha-BHC	1 ug/mL
							beta-BHC	1 ug/mL
							Endrin	5 ug/mL
							gamma-BHC (Lindane)	1 ug/mL
							Methoxychlor	25 ug/mL
							Tetrachloro-m-xylene	1 ug/mL
SGPESTTCST_00015	01/11/15	07/12/14	HEXANE, Lot 75731	100 mL	SGPESTTCorp_00002	0.1 mL	Chlordane (technical) Peak 1	1 ug/mL
							Chlordane (technical) Peak 2	1 ug/mL
							Chlordane (technical) Peak 3	1 ug/mL
							Chlordane (technical) Peak 4	1 ug/mL
.SGPESTTCorp_00002	07/12/15	07/12/14	HEXANE, Lot 0000075731	5 mL	SGPESTTC_00006	1 mL	Chlordane (technical) Peak 1	1000 ug/mL
							Chlordane (technical) Peak 2	1000 ug/mL
							Chlordane (technical) Peak 3	1000 ug/mL
							Chlordane (technical) Peak 4	1000 ug/mL
..SGPESTTC_00006	11/30/17	Restek, Lot A099454			(Purchased Reagent)		Chlordane (technical) Peak 1	5000 ug/mL
							Chlordane (technical) Peak 2	5000 ug/mL
							Chlordane (technical) Peak 3	5000 ug/mL
							Chlordane (technical) Peak 4	5000 ug/mL
SGPESTTCST_00015	01/11/15	07/12/14	HEXANE, Lot 75731	100 mL	SGPESTTCorp_00002	0.1 mL	Chlordane (technical)	1 ug/mL
.SGPESTTCorp_00002	07/12/15	07/12/14	HEXANE, Lot 0000075731	5 mL	SGPESTTC_00006	1 mL	Chlordane (technical)	1000 ug/mL
..SGPESTTC_00006	11/30/17	Restek, Lot A099454			(Purchased Reagent)		Chlordane (technical)	5000 ug/mL
SMDIOXSCRN_00003	07/25/23	Accu Standard, Lot B4010226-1A			(Purchased Reagent)		2,3,7,8-TCDD	50 ug/mL
SMLIST1 L1 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SMLIST1PAH ST_00003	2 uL	1,1'-Biphenyl	0.1 ug/mL
							2-Chloronaphthalene	0.1 ug/mL
							2-Methylnaphthalene	0.1 ug/mL
							Acenaphthene	0.1 ug/mL
							Acenaphthylene	0.1 ug/mL
							Anthracene	0.1 ug/mL
							Benzo[a]anthracene	0.1 ug/mL
							Benzo[a]pyrene	0.1 ug/mL
							Benzo[b]fluoranthene	0.1 ug/mL
							Benzo[g,h,i]perylene	0.1 ug/mL
							Benzo[k]fluoranthene	0.1 ug/mL
							Chrysene	0.1 ug/mL
							Dibenz(a,h)anthracene	0.1 ug/mL
							Dibenzofuran	0.1 ug/mL
							Fluoranthene	0.1 ug/mL
							Fluorene	0.1 ug/mL
							Hexachlorobenzene	0.1 ug/mL
							Indeno[1,2,3-cd]pyrene	0.1 ug/mL
							Naphthalene	0.1 ug/mL
							Phenanthrene	0.1 ug/mL
							Pyrene	0.1 ug/mL
							2-Fluorobiphenyl (Surr)	0.1 ug/mL
							Nitrobenzene-d5	0.1 ug/mL
							Terphenyl-d14	0.1 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1PAH ST_00003	08/31/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 PAH_00003	300 uL	1,1'-Biphenyl	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Chrysene	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Naphthalene	100 ug/mL
							Phenanthrene	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 SURR_00003	60 uL	2-Fluorobiphenyl (Surr)	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 PAH_00003	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Chrysene	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Naphthalene	1000 ug/mL
							Phenanthrene	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2-Fluorobiphenyl (Surr)	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L2 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	10 uL	1,1'-Biphenyl	0.5 ug/mL
							1,2,4,5-Tetrachlorobenzene	0.5 ug/mL
							1,2,4-Trichlorobenzene	0.5 ug/mL
							1,2-Dichlorobenzene	0.5 ug/mL
							1,2-Diphenylhydrazine	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	0.5 ug/mL
							1,4-Dichlorobenzene	0.5 ug/mL
							1,4-Dioxane	0.5 ug/mL
							2,2'-oxybis[1-chloropropane]	0.5 ug/mL
							2,4,5-Trichlorophenol	0.5 ug/mL
							2,4,6-Trichlorophenol	0.5 ug/mL
							2,4-Dichlorophenol	0.5 ug/mL
							2,4-Dimethylphenol	0.5 ug/mL
							2,4-Dinitrophenol	1 ug/mL
							2,4-Dinitrotoluene	0.5 ug/mL
							2,6-Dinitrotoluene	0.5 ug/mL
							2-Chloronaphthalene	0.5 ug/mL
							2-Chlorophenol	0.5 ug/mL
							2-Methylnaphthalene	0.5 ug/mL
							2-Methylphenol	0.5 ug/mL
							2-Nitroaniline	0.5 ug/mL
							2-Nitrophenol	0.5 ug/mL
							3 & 4 Methylphenol	0.5 ug/mL
							3-Nitroaniline	0.5 ug/mL
							4,6-Dinitro-2-methylphenol	1 ug/mL
							4-Bromophenyl phenyl ether	0.5 ug/mL
							4-Chloro-3-methylphenol	0.5 ug/mL
							4-Chloroaniline	0.5 ug/mL
							4-Chlorophenyl phenyl ether	0.5 ug/mL
							4-Nitroaniline	0.5 ug/mL
							4-Nitrophenol	1 ug/mL
							Acenaphthene	0.5 ug/mL
							Acenaphthylene	0.5 ug/mL
							Acetophenone	0.5 ug/mL
							Aniline	0.5 ug/mL
							Anthracene	0.5 ug/mL
							Azobenzene	0.5 ug/mL
							Benzo[a]anthracene	0.5 ug/mL
							Benzo[a]pyrene	0.5 ug/mL
							Benzo[b]fluoranthene	0.5 ug/mL
							Benzo[g,h,i]perylene	0.5 ug/mL
							Benzo[k]fluoranthene	0.5 ug/mL
							Benzyl alcohol	0.5 ug/mL
							Bis(2-chloroethoxy)methane	0.5 ug/mL
							Bis(2-chloroethyl)ether	0.5 ug/mL
							Bis(2-ethylhexyl) phthalate	0.5 ug/mL
							Butyl benzyl phthalate	0.5 ug/mL
							Carbazole	0.5 ug/mL
							Chrysene	0.5 ug/mL
							Di-n-butyl phthalate	0.5 ug/mL
							Di-n-octyl phthalate	0.5 ug/mL
							Dibenz(a,h)anthracene	0.5 ug/mL
							Dibenzofuran	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	0.5 ug/mL
							Dimethyl phthalate	0.5 ug/mL
							Fluoranthene	0.5 ug/mL
							Fluorene	0.5 ug/mL
							Hexachlorobenzene	0.5 ug/mL
							Hexachlorobutadiene	0.5 ug/mL
							Hexachlorocyclopentadiene	0.5 ug/mL
							Hexachloroethane	0.5 ug/mL
							Indeno[1,2,3-cd]pyrene	0.5 ug/mL
							Isophorone	0.5 ug/mL
							n-Decane	0.5 ug/mL
							N-Nitrosodi-n-propylamine	0.5 ug/mL
							N-Nitrosodimethylamine	0.5 ug/mL
							n-Octadecane	0.5 ug/mL
							Naphthalene	0.5 ug/mL
							Nitrobenzene	0.5 ug/mL
							Pentachlorophenol	1 ug/mL
							Phenanthrene	0.5 ug/mL
							Phenol	0.5 ug/mL
							Pyrene	0.5 ug/mL
							Pyridine	0.5 ug/mL
							3,3'-Dichlorobenzidine	1 ug/mL
							Benzidine	1 ug/mL
							N-Nitrosodiphenylamine	1 ug/mL
							Benzoic acid	1 ug/mL
							2,4,6-Tribromophenol	0.5 ug/mL
							2-Fluorobiphenyl (Surr)	0.5 ug/mL
							2-Fluorophenol	0.5 ug/mL
							Nitrobenzene-d5	0.5 ug/mL
							Phenol-d5	0.5 ug/mL
							Terphenyl-d14	0.5 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L3 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	20 uL	1,1'-Biphenyl	1 ug/mL
							1,2,4,5-Tetrachlorobenzene	1 ug/mL
							1,2,4-Trichlorobenzene	1 ug/mL
							1,2-Dichlorobenzene	1 ug/mL
							1,2-Diphenylhydrazine	1 ug/mL
							1,3-Dichlorobenzene	1 ug/mL
							1,4-Dichlorobenzene	1 ug/mL
							1,4-Dioxane	1 ug/mL
							2,2'-oxybis[1-chloropropane]	1 ug/mL
							2,4,5-Trichlorophenol	1 ug/mL
							2,4,6-Trichlorophenol	1 ug/mL
							2,4-Dichlorophenol	1 ug/mL
							2,4-Dimethylphenol	1 ug/mL
							2,4-Dinitrophenol	2 ug/mL
							2,4-Dinitrotoluene	1 ug/mL
							2,6-Dinitrotoluene	1 ug/mL
							2-Chloronaphthalene	1 ug/mL
							2-Chlorophenol	1 ug/mL
							2-Methylnaphthalene	1 ug/mL
							2-Methylphenol	1 ug/mL
							2-Nitroaniline	1 ug/mL
							2-Nitrophenol	1 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3 & 4 Methylphenol	1 ug/mL
							3-Nitroaniline	1 ug/mL
							4,6-Dinitro-2-methylphenol	2 ug/mL
							4-Bromophenyl phenyl ether	1 ug/mL
							4-Chloro-3-methylphenol	1 ug/mL
							4-Chloroaniline	1 ug/mL
							4-Chlorophenyl phenyl ether	1 ug/mL
							4-Nitroaniline	1 ug/mL
							4-Nitrophenol	2 ug/mL
							Acenaphthene	1 ug/mL
							Acenaphthylene	1 ug/mL
							Acetophenone	1 ug/mL
							Aniline	1 ug/mL
							Anthracene	1 ug/mL
							Azobenzene	1 ug/mL
							Benzo[a]anthracene	1 ug/mL
							Benzo[a]pyrene	1 ug/mL
							Benzo[b]fluoranthene	1 ug/mL
							Benzo[g,h,i]perylene	1 ug/mL
							Benzo[k]fluoranthene	1 ug/mL
							Benzyl alcohol	1 ug/mL
							Bis(2-chloroethoxy)methane	1 ug/mL
							Bis(2-chloroethyl)ether	1 ug/mL
							Bis(2-ethylhexyl) phthalate	1 ug/mL
							Butyl benzyl phthalate	1 ug/mL
							Carbazole	1 ug/mL
							Chrysene	1 ug/mL
							Di-n-butyl phthalate	1 ug/mL
							Di-n-octyl phthalate	1 ug/mL
							Dibenz(a,h)anthracene	1 ug/mL
							Dibenzofuran	1 ug/mL
							Diethyl phthalate	1 ug/mL
							Dimethyl phthalate	1 ug/mL
							Fluoranthene	1 ug/mL
							Fluorene	1 ug/mL
							Hexachlorobenzene	1 ug/mL
							Hexachlorobutadiene	1 ug/mL
							Hexachlorocyclopentadiene	1 ug/mL
							Hexachloroethane	1 ug/mL
							Indeno[1,2,3-cd]pyrene	1 ug/mL
							Isophorone	1 ug/mL
							n-Decane	1 ug/mL
							N-Nitrosodi-n-propylamine	1 ug/mL
							N-Nitrosodimethylamine	1 ug/mL
							n-Octadecane	1 ug/mL
							Naphthalene	1 ug/mL
							Nitrobenzene	1 ug/mL
							Pentachlorophenol	2 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	1 ug/mL
							Phenol	1 ug/mL
							Pyrene	1 ug/mL
							Pyridine	1 ug/mL
							3,3'-Dichlorobenzidine	2 ug/mL
							Benzidine	2 ug/mL
							N-Nitrosodiphenylamine	2 ug/mL
							Benzoic acid	2 ug/mL
							2,4,6-Tribromophenol	1 ug/mL
							2-Fluorobiphenyl (Surr)	1 ug/mL
							2-Fluorophenol	1 ug/mL
							Nitrobenzene-d5	1 ug/mL
							Phenol-d5	1 ug/mL
							Terphenyl-d14	1 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L4 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	40 uL	1,1'-Biphenyl	2 ug/mL
							1,2,4,5-Tetrachlorobenzene	2 ug/mL
							1,2,4-Trichlorobenzene	2 ug/mL
							1,2-Dichlorobenzene	2 ug/mL
							1,2-Diphenylhydrazine	2 ug/mL
							1,3-Dichlorobenzene	2 ug/mL
							1,4-Dichlorobenzene	2 ug/mL
							1,4-Dioxane	2 ug/mL
							2,2'-oxybis[1-chloropropane]	2 ug/mL
							2,4,5-Trichlorophenol	2 ug/mL
							2,4,6-Trichlorophenol	2 ug/mL
							2,4-Dichlorophenol	2 ug/mL
							2,4-Dimethylphenol	2 ug/mL
							2,4-Dinitrophenol	4 ug/mL
							2,4-Dinitrotoluene	2 ug/mL
							2,6-Dinitrotoluene	2 ug/mL
							2-Chloronaphthalene	2 ug/mL
							2-Chlorophenol	2 ug/mL
							2-Methylnaphthalene	2 ug/mL
							2-Methylphenol	2 ug/mL
							2-Nitroaniline	2 ug/mL
							2-Nitrophenol	2 ug/mL
							3 & 4 Methylphenol	2 ug/mL
							3-Nitroaniline	2 ug/mL
							4,6-Dinitro-2-methylphenol	4 ug/mL
							4-Bromophenyl phenyl ether	2 ug/mL
							4-Chloro-3-methylphenol	2 ug/mL
							4-Chloroaniline	2 ug/mL
							4-Chlorophenyl phenyl ether	2 ug/mL
							4-Nitroaniline	2 ug/mL
							4-Nitrophenol	4 ug/mL
							Acenaphthene	2 ug/mL
							Acenaphthylene	2 ug/mL
							Acetophenone	2 ug/mL
							Aniline	2 ug/mL
							Anthracene	2 ug/mL
							Azobenzene	2 ug/mL
							Benzo[a]anthracene	2 ug/mL
							Benzo[a]pyrene	2 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	2 ug/mL
							Benzo[g,h,i]perylene	2 ug/mL
							Benzo[k]fluoranthene	2 ug/mL
							Benzyl alcohol	2 ug/mL
							Bis(2-chloroethoxy)methane	2 ug/mL
							Bis(2-chloroethyl)ether	2 ug/mL
							Bis(2-ethylhexyl) phthalate	2 ug/mL
							Butyl benzyl phthalate	2 ug/mL
							Carbazole	2 ug/mL
							Chrysene	2 ug/mL
							Di-n-butyl phthalate	2 ug/mL
							Di-n-octyl phthalate	2 ug/mL
							Dibenz(a,h)anthracene	2 ug/mL
							Dibenzofuran	2 ug/mL
							Diethyl phthalate	2 ug/mL
							Dimethyl phthalate	2 ug/mL
							Fluoranthene	2 ug/mL
							Fluorene	2 ug/mL
							Hexachlorobenzene	2 ug/mL
							Hexachlorobutadiene	2 ug/mL
							Hexachlorocyclopentadiene	2 ug/mL
							Hexachloroethane	2 ug/mL
							Indeno[1,2,3-cd]pyrene	2 ug/mL
							Isophorone	2 ug/mL
							n-Decane	2 ug/mL
							N-Nitrosodi-n-propylamine	2 ug/mL
							N-Nitrosodimethylamine	2 ug/mL
							n-Octadecane	2 ug/mL
							Naphthalene	2 ug/mL
							Nitrobenzene	2 ug/mL
							Pentachlorophenol	4 ug/mL
							Phenanthrene	2 ug/mL
							Phenol	2 ug/mL
							Pyrene	2 ug/mL
							Pyridine	2 ug/mL
							3,3'-Dichlorobenzidine	4 ug/mL
							Benzidine	4 ug/mL
							N-Nitrosodiphenylamine	4 ug/mL
							Benzoic acid	4 ug/mL
							2,4,6-Tribromophenol	2 ug/mL
							2-Fluorobiphenyl (Surr)	2 ug/mL
							2-Fluorophenol	2 ug/mL
							Nitrobenzene-d5	2 ug/mL
							Phenol-d5	2 ug/mL
							Terphenyl-d14	2 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L5 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	100 uL	1,1'-Biphenyl	5 ug/mL
							1,2,4,5-Tetrachlorobenzene	5 ug/mL
							1,2,4-Trichlorobenzene	5 ug/mL
							1,2-Dichlorobenzene	5 ug/mL
							1,2-Diphenylhydrazine	5 ug/mL
							1,3-Dichlorobenzene	5 ug/mL
							1,4-Dichlorobenzene	5 ug/mL
							1,4-Dioxane	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	5 ug/mL
							2,4,5-Trichlorophenol	5 ug/mL
							2,4,6-Trichlorophenol	5 ug/mL
							2,4-Dichlorophenol	5 ug/mL
							2,4-Dimethylphenol	5 ug/mL
							2,4-Dinitrophenol	10 ug/mL
							2,4-Dinitrotoluene	5 ug/mL
							2,6-Dinitrotoluene	5 ug/mL
							2-Chloronaphthalene	5 ug/mL
							2-Chlorophenol	5 ug/mL
							2-Methylnaphthalene	5 ug/mL
							2-Methylphenol	5 ug/mL
							2-Nitroaniline	5 ug/mL
							2-Nitrophenol	5 ug/mL
							3 & 4 Methylphenol	5 ug/mL
							3-Nitroaniline	5 ug/mL
							4,6-Dinitro-2-methylphenol	10 ug/mL
							4-Bromophenyl phenyl ether	5 ug/mL
							4-Chloro-3-methylphenol	5 ug/mL
							4-Chloroaniline	5 ug/mL
							4-Chlorophenyl phenyl ether	5 ug/mL
							4-Nitroaniline	5 ug/mL
							4-Nitrophenol	10 ug/mL
							Acenaphthene	5 ug/mL
							Acenaphthylene	5 ug/mL
							Acetophenone	5 ug/mL
							Aniline	5 ug/mL
							Anthracene	5 ug/mL
							Azobenzene	5 ug/mL
							Benzo[a]anthracene	5 ug/mL
							Benzo[a]pyrene	5 ug/mL
							Benzo[b]fluoranthene	5 ug/mL
							Benzo[g,h,i]perylene	5 ug/mL
							Benzo[k]fluoranthene	5 ug/mL
							Benzyl alcohol	5 ug/mL
							Bis(2-chloroethoxy)methane	5 ug/mL
							Bis(2-chloroethyl)ether	5 ug/mL
							Bis(2-ethylhexyl) phthalate	5 ug/mL
							Butyl benzyl phthalate	5 ug/mL
							Carbazole	5 ug/mL
							Chrysene	5 ug/mL
							Di-n-butyl phthalate	5 ug/mL
							Di-n-octyl phthalate	5 ug/mL
							Dibenz(a,h)anthracene	5 ug/mL
							Dibenzofuran	5 ug/mL
							Diethyl phthalate	5 ug/mL
							Dimethyl phthalate	5 ug/mL
							Fluoranthene	5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	5 ug/mL
							Hexachlorobenzene	5 ug/mL
							Hexachlorobutadiene	5 ug/mL
							Hexachlorocyclopentadiene	5 ug/mL
							Hexachloroethane	5 ug/mL
							Indeno[1,2,3-cd]pyrene	5 ug/mL
							Isophorone	5 ug/mL
							n-Decane	5 ug/mL
							N-Nitrosodi-n-propylamine	5 ug/mL
							N-Nitrosodimethylamine	5 ug/mL
							n-Octadecane	5 ug/mL
							Naphthalene	5 ug/mL
							Nitrobenzene	5 ug/mL
							Pentachlorophenol	10 ug/mL
							Phenanthrene	5 ug/mL
							Phenol	5 ug/mL
							Pyrene	5 ug/mL
							Pyridine	5 ug/mL
							3,3'-Dichlorobenzidine	10 ug/mL
							Benzidine	10 ug/mL
							N-Nitrosodiphenylamine	10 ug/mL
							Benzoic acid	10 ug/mL
							2,4,6-Tribromophenol	5 ug/mL
							2-Fluorobiphenyl (Surr)	5 ug/mL
							2-Fluorophenol	5 ug/mL
							Nitrobenzene-d5	5 ug/mL
							Phenol-d5	5 ug/mL
							Terphenyl-d14	5 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L6 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	200 uL	1,1'-Biphenyl	10 ug/mL
							1,2,4,5-Tetrachlorobenzene	10 ug/mL
							1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Dichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							1,3-Dichlorobenzene	10 ug/mL
							1,4-Dichlorobenzene	10 ug/mL
							1,4-Dioxane	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL
							2,4,5-Trichlorophenol	10 ug/mL
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrophenol	20 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Methylnaphthalene	10 ug/mL
							2-Methylphenol	10 ug/mL
							2-Nitroaniline	10 ug/mL
							2-Nitrophenol	10 ug/mL
							3 & 4 Methylphenol	10 ug/mL
							3-Nitroaniline	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chloroaniline	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitroaniline	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Acetophenone	10 ug/mL
							Aniline	10 ug/mL
							Anthracene	10 ug/mL
							Azobenzene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Benzyl alcohol	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Carbazole	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Dibenzofuran	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							n-Decane	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							n-Octadecane	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	10 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL
							Benzidine	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							Benzoic acid	20 ug/mL
							2,4,6-Tribromophenol	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol	10 ug/mL
							Nitrobenzene-d5	10 ug/mL
							Phenol-d5	10 ug/mL
							Terphenyl-d14	10 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
SMLIST1 L7 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	300 uL	1,1'-Biphenyl	15 ug/mL
							1,2,4,5-Tetrachlorobenzene	15 ug/mL
							1,2,4-Trichlorobenzene	15 ug/mL
							1,2-Dichlorobenzene	15 ug/mL
							1,2-Diphenylhydrazine	15 ug/mL
							1,3-Dichlorobenzene	15 ug/mL
							1,4-Dichlorobenzene	15 ug/mL
							1,4-Dioxane	15 ug/mL
							2,2'-oxybis[1-chloropropane]	15 ug/mL
							2,4,5-Trichlorophenol	15 ug/mL
							2,4,6-Trichlorophenol	15 ug/mL
							2,4-Dichlorophenol	15 ug/mL
							2,4-Dimethylphenol	15 ug/mL
							2,4-Dinitrophenol	30 ug/mL
							2,4-Dinitrotoluene	15 ug/mL
							2,6-Dinitrotoluene	15 ug/mL
							2-Chloronaphthalene	15 ug/mL
							2-Chlorophenol	15 ug/mL
							2-Methylnaphthalene	15 ug/mL
							2-Methylphenol	15 ug/mL
							2-Nitroaniline	15 ug/mL
							2-Nitrophenol	15 ug/mL
							3 & 4 Methylphenol	15 ug/mL
							3-Nitroaniline	15 ug/mL
							4,6-Dinitro-2-methylphenol	30 ug/mL
							4-Bromophenyl phenyl ether	15 ug/mL
							4-Chloro-3-methylphenol	15 ug/mL
							4-Chloroaniline	15 ug/mL
							4-Chlorophenyl phenyl ether	15 ug/mL
							4-Nitroaniline	15 ug/mL
							4-Nitrophenol	30 ug/mL
							Acenaphthene	15 ug/mL
							Acenaphthylene	15 ug/mL
							Acetophenone	15 ug/mL
							Aniline	15 ug/mL
							Anthracene	15 ug/mL
							Azobenzene	15 ug/mL
							Benzo[a]anthracene	15 ug/mL
							Benzo[a]pyrene	15 ug/mL
							Benzo[b]fluoranthene	15 ug/mL
							Benzo[g,h,i]perylene	15 ug/mL
							Benzo[k]fluoranthene	15 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	15 ug/mL
							Bis(2-chloroethoxy)methane	15 ug/mL
							Bis(2-chloroethyl)ether	15 ug/mL
							Bis(2-ethylhexyl) phthalate	15 ug/mL
							Butyl benzyl phthalate	15 ug/mL
							Carbazole	15 ug/mL
							Chrysene	15 ug/mL
							Di-n-butyl phthalate	15 ug/mL
							Di-n-octyl phthalate	15 ug/mL
							Dibenz(a,h)anthracene	15 ug/mL
							Dibenzofuran	15 ug/mL
							Diethyl phthalate	15 ug/mL
							Dimethyl phthalate	15 ug/mL
							Fluoranthene	15 ug/mL
							Fluorene	15 ug/mL
							Hexachlorobenzene	15 ug/mL
							Hexachlorobutadiene	15 ug/mL
							Hexachlorocyclopentadiene	15 ug/mL
							Hexachloroethane	15 ug/mL
							Indeno[1,2,3-cd]pyrene	15 ug/mL
							Isophorone	15 ug/mL
							n-Decane	15 ug/mL
							N-Nitrosodi-n-propylamine	15 ug/mL
							N-Nitrosodimethylamine	15 ug/mL
							n-Octadecane	15 ug/mL
							Naphthalene	15 ug/mL
							Nitrobenzene	15 ug/mL
							Pentachlorophenol	30 ug/mL
							Phenanthrene	15 ug/mL
							Phenol	15 ug/mL
							Pyrene	15 ug/mL
							Pyridine	15 ug/mL
							3,3'-Dichlorobenzidine	30 ug/mL
							Benzidine	30 ug/mL
							N-Nitrosodiphenylamine	30 ug/mL
							Benzoic acid	30 ug/mL
							2,4,6-Tribromophenol	15 ug/mL
							2-Fluorobiphenyl (Surr)	15 ug/mL
							2-Fluorophenol	15 ug/mL
							Nitrobenzene-d5	15 ug/mL
							Phenol-d5	15 ug/mL
							Terphenyl-d14	15 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..SMIS R_00004	02/24/15		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L8 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	400 uL	1,1'-Biphenyl	20 ug/mL
							1,2,4,5-Tetrachlorobenzene	20 ug/mL
							1,2,4-Trichlorobenzene	20 ug/mL
							1,2-Dichlorobenzene	20 ug/mL
							1,2-Diphenylhydrazine	20 ug/mL
							1,3-Dichlorobenzene	20 ug/mL
							1,4-Dichlorobenzene	20 ug/mL
							1,4-Dioxane	20 ug/mL
							2,2'-oxybis[1-chloropropane]	20 ug/mL
							2,4,5-Trichlorophenol	20 ug/mL
							2,4,6-Trichlorophenol	20 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	20 ug/mL
							2,4-Dimethylphenol	20 ug/mL
							2,4-Dinitrophenol	40 ug/mL
							2,4-Dinitrotoluene	20 ug/mL
							2,6-Dinitrotoluene	20 ug/mL
							2-Chloronaphthalene	20 ug/mL
							2-Chlorophenol	20 ug/mL
							2-Methylnaphthalene	20 ug/mL
							2-Methylphenol	20 ug/mL
							2-Nitroaniline	20 ug/mL
							2-Nitrophenol	20 ug/mL
							3 & 4 Methylphenol	20 ug/mL
							3-Nitroaniline	20 ug/mL
							4,6-Dinitro-2-methylphenol	40 ug/mL
							4-Bromophenyl phenyl ether	20 ug/mL
							4-Chloro-3-methylphenol	20 ug/mL
							4-Chloroaniline	20 ug/mL
							4-Chlorophenyl phenyl ether	20 ug/mL
							4-Nitroaniline	20 ug/mL
							4-Nitrophenol	40 ug/mL
							Acenaphthene	20 ug/mL
							Acenaphthylene	20 ug/mL
							Acetophenone	20 ug/mL
							Aniline	20 ug/mL
							Anthracene	20 ug/mL
							Azobenzene	20 ug/mL
							Benzo[a]anthracene	20 ug/mL
							Benzo[a]pyrene	20 ug/mL
							Benzo[b]fluoranthene	20 ug/mL
							Benzo[g,h,i]perylene	20 ug/mL
							Benzo[k]fluoranthene	20 ug/mL
							Benzyl alcohol	20 ug/mL
							Bis(2-chloroethoxy)methane	20 ug/mL
							Bis(2-chloroethyl)ether	20 ug/mL
							Bis(2-ethylhexyl) phthalate	20 ug/mL
							Butyl benzyl phthalate	20 ug/mL
							Carbazole	20 ug/mL
							Chrysene	20 ug/mL
							Di-n-butyl phthalate	20 ug/mL
							Di-n-octyl phthalate	20 ug/mL
							Dibenz(a,h)anthracene	20 ug/mL
							Dibenzofuran	20 ug/mL
							Diethyl phthalate	20 ug/mL
							Dimethyl phthalate	20 ug/mL
							Fluoranthene	20 ug/mL
							Fluorene	20 ug/mL
							Hexachlorobenzene	20 ug/mL
							Hexachlorobutadiene	20 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	20 ug/mL
							Hexachloroethane	20 ug/mL
							Indeno[1,2,3-cd]pyrene	20 ug/mL
							Isophorone	20 ug/mL
							n-Decane	20 ug/mL
							N-Nitrosodi-n-propylamine	20 ug/mL
							N-Nitrosodimethylamine	20 ug/mL
							n-Octadecane	20 ug/mL
							Naphthalene	20 ug/mL
							Nitrobenzene	20 ug/mL
							Pentachlorophenol	40 ug/mL
							Phenanthrene	20 ug/mL
							Phenol	20 ug/mL
							Pyrene	20 ug/mL
							Pyridine	20 ug/mL
							3,3'-Dichlorobenzidine	40 ug/mL
							Benzidine	40 ug/mL
							N-Nitrosodiphenylamine	40 ug/mL
							Benzoic acid	40 ug/mL
							2,4,6-Tribromophenol	20 ug/mL
							2-Fluorobiphenyl (Surr)	20 ug/mL
							2-Fluorophenol	20 ug/mL
							Nitrobenzene-d5	20 ug/mL
							Phenol-d5	20 ug/mL
							Terphenyl-d14	20 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15		Restek, Lot A093676		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 L9 W_00004	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMIS80PPMW_00010	100 uL	1,4-Dichlorobenzene-d4	4 ug/mL
							Acenaphthene-d10	4 ug/mL
							Chrysene-d12	4 ug/mL
							Naphthalene-d8	4 ug/mL
							Perylene-d12	4 ug/mL
							Phenanthrene-d10	4 ug/mL
					SMLIST1 STOCK_00004	500 uL	1,1'-Biphenyl	25 ug/mL
							1,2,4,5-Tetrachlorobenzene	25 ug/mL
							1,2,4-Trichlorobenzene	25 ug/mL
							1,2-Dichlorobenzene	25 ug/mL
							1,2-Diphenylhydrazine	25 ug/mL
							1,3-Dichlorobenzene	25 ug/mL
							1,4-Dichlorobenzene	25 ug/mL
							1,4-Dioxane	25 ug/mL
							2,2'-oxybis[1-chloropropane]	25 ug/mL
							2,4,5-Trichlorophenol	25 ug/mL
							2,4,6-Trichlorophenol	25 ug/mL
							2,4-Dichlorophenol	25 ug/mL
							2,4-Dimethylphenol	25 ug/mL
							2,4-Dinitrophenol	50 ug/mL
							2,4-Dinitrotoluene	25 ug/mL
							2,6-Dinitrotoluene	25 ug/mL
							2-Chloronaphthalene	25 ug/mL
							2-Chlorophenol	25 ug/mL
							2-Methylnaphthalene	25 ug/mL
							2-Methylphenol	25 ug/mL
							2-Nitroaniline	25 ug/mL
							2-Nitrophenol	25 ug/mL
							3 & 4 Methylphenol	25 ug/mL
							3-Nitroaniline	25 ug/mL
							4,6-Dinitro-2-methylphenol	50 ug/mL
							4-Bromophenyl phenyl ether	25 ug/mL
							4-Chloro-3-methylphenol	25 ug/mL
							4-Chloroaniline	25 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	25 ug/mL
							4-Nitroaniline	25 ug/mL
							4-Nitrophenol	50 ug/mL
							Acenaphthene	25 ug/mL
							Acenaphthylene	25 ug/mL
							Acetophenone	25 ug/mL
							Aniline	25 ug/mL
							Anthracene	25 ug/mL
							Azobenzene	25 ug/mL
							Benzo[a]anthracene	25 ug/mL
							Benzo[a]pyrene	25 ug/mL
							Benzo[b]fluoranthene	25 ug/mL
							Benzo[g,h,i]perylene	25 ug/mL
							Benzo[k]fluoranthene	25 ug/mL
							Benzyl alcohol	25 ug/mL
							Bis(2-chloroethoxy)methane	25 ug/mL
							Bis(2-chloroethyl)ether	25 ug/mL
							Bis(2-ethylhexyl) phthalate	25 ug/mL
							Butyl benzyl phthalate	25 ug/mL
							Carbazole	25 ug/mL
							Chrysene	25 ug/mL
							Di-n-butyl phthalate	25 ug/mL
							Di-n-octyl phthalate	25 ug/mL
							Dibenz(a,h)anthracene	25 ug/mL
							Dibenzofuran	25 ug/mL
							Diethyl phthalate	25 ug/mL
							Dimethyl phthalate	25 ug/mL
							Fluoranthene	25 ug/mL
							Fluorene	25 ug/mL
							Hexachlorobenzene	25 ug/mL
							Hexachlorobutadiene	25 ug/mL
							Hexachlorocyclopentadiene	25 ug/mL
							Hexachloroethane	25 ug/mL
							Indeno[1,2,3-cd]pyrene	25 ug/mL
							Isophorone	25 ug/mL
							n-Decane	25 ug/mL
							N-Nitrosodi-n-propylamine	25 ug/mL
							N-Nitrosodimethylamine	25 ug/mL
							n-Octadecane	25 ug/mL
							Naphthalene	25 ug/mL
							Nitrobenzene	25 ug/mL
							Pentachlorophenol	50 ug/mL
							Phenanthrene	25 ug/mL
							Phenol	25 ug/mL
							Pyrene	25 ug/mL
							Pyridine	25 ug/mL
							3,3'-Dichlorobenzidine	50 ug/mL
							Benzidine	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							N-Nitrosodiphenylamine	50 ug/mL
							Benzoic acid	50 ug/mL
							2,4,6-Tribromophenol	25 ug/mL
							2-Fluorobiphenyl (Surr)	25 ug/mL
							2-Fluorophenol	25 ug/mL
							Nitrobenzene-d5	25 ug/mL
							Phenol-d5	25 ug/mL
							Terphenyl-d14	25 ug/mL
.SMIS80PPMW_00010	02/24/15	02/24/14	MECL2, Lot 0000058239	25 mL	SMIS R_00004	1 mL	1,4-Dichlorobenzene-d4	80 ug/mL
							Acenaphthene-d10	80 ug/mL
							Chrysene-d12	80 ug/mL
							Naphthalene-d8	80 ug/mL
							Perylene-d12	80 ug/mL
							Phenanthrene-d10	80 ug/mL
..SMIS R_00004	02/24/15	Restek, Lot A093676			(Purchased Reagent)		1,4-Dichlorobenzene-d4	2000 ug/mL
							Acenaphthene-d10	2000 ug/mL
							Chrysene-d12	2000 ug/mL
							Naphthalene-d8	2000 ug/mL
							Perylene-d12	2000 ug/mL
							Phenanthrene-d10	2000 ug/mL
.SMLIST1 STOCK_00004	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 S1_00004	300 uL	1,1'-Biphenyl	100 ug/mL
							1,2,4,5-Tetrachlorobenzene	100 ug/mL
							1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Dichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							1,3-Dichlorobenzene	100 ug/mL
							1,4-Dichlorobenzene	100 ug/mL
							1,4-Dioxane	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,5-Trichlorophenol	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrophenol	200 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Methylnaphthalene	100 ug/mL
							2-Methylphenol	100 ug/mL
							2-Nitroaniline	100 ug/mL
							2-Nitrophenol	100 ug/mL
							3 & 4 Methylphenol	100 ug/mL
							3-Nitroaniline	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chloroaniline	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitroaniline	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Acetophenone	100 ug/mL
							Aniline	100 ug/mL
							Anthracene	100 ug/mL
							Azobenzene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Benzyl alcohol	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Carbazole	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Dibenzofuran	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							n-Decane	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							n-Octadecane	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
							Pyridine	100 ug/mL
					SMLIST1 S2_00007	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					SMLIST1 S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1 S8_00001	300 uL	Benzoic acid	200 ug/mL
					SMLIST1 SURR_00003	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 S1_00004	08/31/15		Restek, Lot A0101615		(Purchased Reagent)		1,1'-Biphenyl	1000 ug/mL
							1,2,4,5-Tetrachlorobenzene	1000 ug/mL
							1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Dichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							1,3-Dichlorobenzene	1000 ug/mL
							1,4-Dichlorobenzene	1000 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,5-Trichlorophenol	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrophenol	2000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Methylnaphthalene	1000 ug/mL
							2-Methylphenol	1000 ug/mL
							2-Nitroaniline	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							3 & 4 Methylphenol	1000 ug/mL
							3-Nitroaniline	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chloroaniline	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitroaniline	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Acetophenone	1000 ug/mL
							Aniline	1000 ug/mL
							Anthracene	1000 ug/mL
							Azobenzene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Benzyl alcohol	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Carbazole	1000 ug/mL
							Chrysene	1000 ug/mL
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Dibenzofuran	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							n-Decane	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							n-Octadecane	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
							Pyridine	1000 ug/mL
..SMLIST1 S2_00007	04/30/15		Restek, Lot A098936		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 S7_00001	02/28/17		Restek, Lot A0101573		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1 S8_00001	02/28/15		Restek, Lot A0101567		(Purchased Reagent)		Benzoic acid	2000 ug/mL
..SMLIST1 SURR_00003	02/22/18		Restek, Lot A093638		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
SMLIST1 SS W_00003	02/24/15	06/30/14	MECL2, Lot 0000073814	2 mL	SMLIST1 SS ST_00003	200 uL	1,2,4-Trichlorobenzene	10 ug/mL
							1,2-Diphenylhydrazine	10 ug/mL
							2,2'-oxybis[1-chloropropane]	10 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2,4,6-Trichlorophenol	10 ug/mL
							2,4-Dichlorophenol	10 ug/mL
							2,4-Dimethylphenol	10 ug/mL
							2,4-Dinitrotoluene	10 ug/mL
							2,6-Dinitrotoluene	10 ug/mL
							2-Chloronaphthalene	10 ug/mL
							2-Chlorophenol	10 ug/mL
							2-Nitrophenol	10 ug/mL
							4,6-Dinitro-2-methylphenol	20 ug/mL
							4-Bromophenyl phenyl ether	10 ug/mL
							4-Chloro-3-methylphenol	10 ug/mL
							4-Chlorophenyl phenyl ether	10 ug/mL
							4-Nitrophenol	20 ug/mL
							Acenaphthene	10 ug/mL
							Acenaphthylene	10 ug/mL
							Anthracene	10 ug/mL
							Benzo[a]anthracene	10 ug/mL
							Benzo[a]pyrene	10 ug/mL
							Benzo[b]fluoranthene	10 ug/mL
							Benzo[g,h,i]perylene	10 ug/mL
							Benzo[k]fluoranthene	10 ug/mL
							Bis(2-chloroethoxy)methane	10 ug/mL
							Bis(2-chloroethyl)ether	10 ug/mL
							Bis(2-ethylhexyl) phthalate	10 ug/mL
							Butyl benzyl phthalate	10 ug/mL
							Chrysene	10 ug/mL
							Di-n-butyl phthalate	10 ug/mL
							Di-n-octyl phthalate	10 ug/mL
							Dibenz(a,h)anthracene	10 ug/mL
							Diethyl phthalate	10 ug/mL
							Dimethyl phthalate	10 ug/mL
							Fluoranthene	10 ug/mL
							Fluorene	10 ug/mL
							Hexachlorobenzene	10 ug/mL
							Hexachlorobutadiene	10 ug/mL
							Hexachlorocyclopentadiene	10 ug/mL
							Hexachloroethane	10 ug/mL
							Indeno[1,2,3-cd]pyrene	10 ug/mL
							Isophorone	10 ug/mL
							N-Nitrosodi-n-propylamine	10 ug/mL
							N-Nitrosodimethylamine	10 ug/mL
							Naphthalene	10 ug/mL
							Nitrobenzene	10 ug/mL
							Pentachlorophenol	20 ug/mL
							Phenanthrene	10 ug/mL
							Phenol	10 ug/mL
							Pyrene	10 ug/mL
							3,3'-Dichlorobenzidine	20 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzidine	20 ug/mL
							N-Nitrosodiphenylamine	20 ug/mL
							2,4,6-Tribromophenol	10 ug/mL
							2-Fluorobiphenyl (Surr)	10 ug/mL
							2-Fluorophenol	10 ug/mL
							Nitrobenzene-d5	10 ug/mL
							Phenol-d5	10 ug/mL
							Terphenyl-d14	10 ug/mL
.SMLIST1 SS ST_00003	02/28/15	06/30/14	MECL2, Lot 0000073814	3 mL	SMLIST1 SS S1_00003	300 uL	1,2,4-Trichlorobenzene	100 ug/mL
							1,2-Diphenylhydrazine	100 ug/mL
							2,2'-oxybis[1-chloropropane]	100 ug/mL
							2,4,6-Trichlorophenol	100 ug/mL
							2,4-Dichlorophenol	100 ug/mL
							2,4-Dimethylphenol	100 ug/mL
							2,4-Dinitrotoluene	100 ug/mL
							2,6-Dinitrotoluene	100 ug/mL
							2-Chloronaphthalene	100 ug/mL
							2-Chlorophenol	100 ug/mL
							2-Nitrophenol	100 ug/mL
							4,6-Dinitro-2-methylphenol	200 ug/mL
							4-Bromophenyl phenyl ether	100 ug/mL
							4-Chloro-3-methylphenol	100 ug/mL
							4-Chlorophenyl phenyl ether	100 ug/mL
							4-Nitrophenol	200 ug/mL
							Acenaphthene	100 ug/mL
							Acenaphthylene	100 ug/mL
							Anthracene	100 ug/mL
							Benzo[a]anthracene	100 ug/mL
							Benzo[a]pyrene	100 ug/mL
							Benzo[b]fluoranthene	100 ug/mL
							Benzo[g,h,i]perylene	100 ug/mL
							Benzo[k]fluoranthene	100 ug/mL
							Bis(2-chloroethoxy)methane	100 ug/mL
							Bis(2-chloroethyl)ether	100 ug/mL
							Bis(2-ethylhexyl) phthalate	100 ug/mL
							Butyl benzyl phthalate	100 ug/mL
							Chrysene	100 ug/mL
							Di-n-butyl phthalate	100 ug/mL
							Di-n-octyl phthalate	100 ug/mL
							Dibenz(a,h)anthracene	100 ug/mL
							Diethyl phthalate	100 ug/mL
							Dimethyl phthalate	100 ug/mL
							Fluoranthene	100 ug/mL
							Fluorene	100 ug/mL
							Hexachlorobenzene	100 ug/mL
							Hexachlorobutadiene	100 ug/mL
							Hexachlorocyclopentadiene	100 ug/mL
							Hexachloroethane	100 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Indeno[1,2,3-cd]pyrene	100 ug/mL
							Isophorone	100 ug/mL
							N-Nitrosodi-n-propylamine	100 ug/mL
							N-Nitrosodimethylamine	100 ug/mL
							Naphthalene	100 ug/mL
							Nitrobenzene	100 ug/mL
							Pentachlorophenol	200 ug/mL
							Phenanthrene	100 ug/mL
							Phenol	100 ug/mL
							Pyrene	100 ug/mL
					SMLIST1 SS S2_00003	300 uL	3,3'-Dichlorobenzidine	200 ug/mL
							Benzidine	200 ug/mL
					SMLIST1 SS S7_00001	300 uL	N-Nitrosodiphenylamine	200 ug/mL
					SMLIST1SS SUR_00002	60 uL	2,4,6-Tribromophenol	100 ug/mL
							2-Fluorobiphenyl (Surr)	100 ug/mL
							2-Fluorophenol	100 ug/mL
							Nitrobenzene-d5	100 ug/mL
							Phenol-d5	100 ug/mL
							Terphenyl-d14	100 ug/mL
..SMLIST1 SS S1_00003	08/31/15		Restek, Lot A0101390		(Purchased Reagent)		1,2,4-Trichlorobenzene	1000 ug/mL
							1,2-Diphenylhydrazine	1000 ug/mL
							2,2'-oxybis[1-chloropropane]	1000 ug/mL
							2,4,6-Trichlorophenol	1000 ug/mL
							2,4-Dichlorophenol	1000 ug/mL
							2,4-Dimethylphenol	1000 ug/mL
							2,4-Dinitrotoluene	1000 ug/mL
							2,6-Dinitrotoluene	1000 ug/mL
							2-Chloronaphthalene	1000 ug/mL
							2-Chlorophenol	1000 ug/mL
							2-Nitrophenol	1000 ug/mL
							4,6-Dinitro-2-methylphenol	2000 ug/mL
							4-Bromophenyl phenyl ether	1000 ug/mL
							4-Chloro-3-methylphenol	1000 ug/mL
							4-Chlorophenyl phenyl ether	1000 ug/mL
							4-Nitrophenol	2000 ug/mL
							Acenaphthene	1000 ug/mL
							Acenaphthylene	1000 ug/mL
							Anthracene	1000 ug/mL
							Benzo[a]anthracene	1000 ug/mL
							Benzo[a]pyrene	1000 ug/mL
							Benzo[b]fluoranthene	1000 ug/mL
							Benzo[g,h,i]perylene	1000 ug/mL
							Benzo[k]fluoranthene	1000 ug/mL
							Bis(2-chloroethoxy)methane	1000 ug/mL
							Bis(2-chloroethyl)ether	1000 ug/mL
							Bis(2-ethylhexyl) phthalate	1000 ug/mL
							Butyl benzyl phthalate	1000 ug/mL
							Chrysene	1000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Di-n-butyl phthalate	1000 ug/mL
							Di-n-octyl phthalate	1000 ug/mL
							Dibenz(a,h)anthracene	1000 ug/mL
							Diethyl phthalate	1000 ug/mL
							Dimethyl phthalate	1000 ug/mL
							Fluoranthene	1000 ug/mL
							Fluorene	1000 ug/mL
							Hexachlorobenzene	1000 ug/mL
							Hexachlorobutadiene	1000 ug/mL
							Hexachlorocyclopentadiene	1000 ug/mL
							Hexachloroethane	1000 ug/mL
							Indeno[1,2,3-cd]pyrene	1000 ug/mL
							Isophorone	1000 ug/mL
							N-Nitrosodi-n-propylamine	1000 ug/mL
							N-Nitrosodimethylamine	1000 ug/mL
							Naphthalene	1000 ug/mL
							Nitrobenzene	1000 ug/mL
							Pentachlorophenol	2000 ug/mL
							Phenanthrene	1000 ug/mL
							Phenol	1000 ug/mL
							Pyrene	1000 ug/mL
..SMLIST1 SS S2_00003	08/31/15		Restek, Lot A0101625		(Purchased Reagent)		3,3'-Dichlorobenzidine	2000 ug/mL
							Benzidine	2000 ug/mL
..SMLIST1 SS S7_00001	02/28/17		Restek, Lot A0101412		(Purchased Reagent)		N-Nitrosodiphenylamine	2000 ug/mL
..SMLIST1SS SUR_00002	09/30/18		Restek, Lot A092712		(Purchased Reagent)		2,4,6-Tribromophenol	5000 ug/mL
							2-Fluorobiphenyl (Surr)	5000 ug/mL
							2-Fluorophenol	5000 ug/mL
							Nitrobenzene-d5	5000 ug/mL
							Phenol-d5	5000 ug/mL
							Terphenyl-d14	5000 ug/mL
Tox Ultra_00005	03/20/15	09/22/14	HEXANE, Lot 78259	50 mL	Tox Ultra_00003	0.5 mL	Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.Tox Ultra_00003	02/28/17		Ultra Scientific, Lot CK-0004		(Purchased Reagent)		Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
Tox Ultra_00007	06/04/15	12/04/14	HEXANE, Lot 80387	50 mL	Tox Ultra_00003	0.5 mL	Toxaphene	10 ug/mL
							Toxaphene Peak 1	10 ug/mL
							Toxaphene Peak 2	10 ug/mL
							Toxaphene Peak 3	10 ug/mL
							Toxaphene Peak 4	10 ug/mL
							Toxaphene Peak 5	10 ug/mL
.Tox Ultra_00003	02/28/17		Ultra Scientific, Lot CK-0004		(Purchased Reagent)		Toxaphene	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toxaphene Peak 1	1000 ug/mL
							Toxaphene Peak 2	1000 ug/mL
							Toxaphene Peak 3	1000 ug/mL
							Toxaphene Peak 4	1000 ug/mL
							Toxaphene Peak 5	1000 ug/mL
vm100is_stk_00021	06/17/15	12/17/14	MEOH, Lot 49909	50 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00019	04/21/15	10/21/14	MEOH, Lot 85233	100 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00182	12/22/14	12/15/14	MEOH, Lot na	2 mL	vm50ss_stk_00063	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00063	06/08/15	12/08/14	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00080	01/02/15	12/26/14	MEOH, Lot na	3 mL	VMFASA_00014	3 mL	Acrolein	250 ug/mL
.VMFASA_00014	02/28/15	12/24/14	MEOH, Lot +161620000085233jb	100 mL	VM568720S_00004	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00004	02/28/15		restek, Lot A0106502		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00062	12/24/14	12/17/14	MEOH, Lot NA	2 mL	VMFASA_00013	2 mL	Acrolein	250 ug/mL
.VMFASA_00013	12/24/14	11/24/14	MEOH, Lot +161620000085233jb	100 mL	VM568720S_00004	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00004	02/28/15		restek, Lot A0106502		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00063	12/31/14	12/24/14	MEOH, Lot NA	2 mL	VMFASA_00014	2 mL	Acrolein	250 ug/mL
.VMFASA_00014	02/28/15	12/24/14	MEOH, Lot +161620000085233jb	100 mL	VM568720S_00004	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00004	02/28/15		restek, Lot A0106502		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00073	12/26/14	12/19/14	MEOH, Lot NA	2 mL	VMFASG_00024	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00024	01/11/15	12/11/14	MEOH, Lot 0000085233	50 mL	VM567645S_00015	1.25 mL	Bromomethane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00015	08/31/15	Restek, Lot A097497			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00074	01/03/15	12/27/14	MEOH, Lot NA	2 mL	VMFASG_00024	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00024	01/11/15	12/11/14	MEOH, Lot 0000085233	50 mL	VM567645S_00015	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00015	08/31/15	Restek, Lot A097497			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00070	12/24/14	12/17/14	MEOH, Lot n/a	2 mL	VMRFASP_00015	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	50 ug/mL
.VMRFASP_00015	01/10/15	12/10/14	MEOH, Lot 0000085233	100 mL	VM567641S_00007	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642S_00003	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00012	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00009	1.25 mL	Vinyl acetate	50 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642S_00003	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00012	07/31/17		Restek, Lot A0104963		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00009	05/31/15		Restek, Lot A0107040		(Purchased Reagent)		Vinyl acetate	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMFASPW_00071	01/02/15	12/26/14	MEOH, Lot n/a	2 mL	VMRFASP_00015	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
.VMRFASP_00015	01/10/15	12/10/14	MEOH, Lot 0000085233	100 mL	VM567641S_00007	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643S_00012	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643S_00012	07/31/17		Restek, Lot A0104963		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
VMRGAS_00084	01/02/15	12/26/14	MEOH, Lot 0000085233	10 mL	vm567645_00031	250 uL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00031	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRPRIMW_00105	01/06/15	12/30/14	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCBODLCS_00035	10/08/16		LabChem, Lot D259-07		(Purchased Reagent)		Biochemical Oxygen Demand	9.9 mg/mL
WCCN.01MRL1_00171	01/07/15	12/31/14	NAOH, Lot 1805823	100 mL	WCCN10PPM1_00187	0.1 mL	Cyanide, Total	0.01 mg/L
.WCCN10PPM1_00187	01/07/15	12/31/14	NAOH, Lot 1805823	100 mL	WCCN1000PPM_00022	1 mL	Cyanide, Total	10 mg/L
..WCCN1000PPM_00022	11/01/15		INORGANIC VENTURES, Lot H2-CN01037		(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCCN.1CCV1_00186	01/07/15	12/31/14	NAOH, Lot 1805823	100 mL	WCCN10PPM1_00187	1 mL	Cyanide, Total	0.1 mg/L
.WCCN10PPM1_00187	01/07/15	12/31/14	NAOH, Lot 1805823	100 mL	WCCN1000PPM_00022	1 mL	Cyanide, Total	10 mg/L
..WCCN1000PPM_00022	11/01/15		INORGANIC VENTURES, Lot H2-CN01037		(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCCN.1ICV2_00192	01/07/15	12/31/14	NAOH, Lot 1805823	100 mL	WCCN10PPM2_00191	1 mL	Cyanide, Total	0.1 mg/L
.WCCN10PPM2_00191	01/07/15	12/31/14	NAOH, Lot 1805823	100 mL	WCCN1000PPM_00021	1 mL	Cyanide, Total	10 mg/L
..WCCN1000PPM_00021	01/24/15		LABCHEM, Lot D199-09		(Purchased Reagent)		Cyanide, Total	1000 mg/L
WCCN1PPMMSD2_00205	01/07/15	12/31/14	NAOH, Lot 1805823	200 mL	WCCN10PPM2_00191	20 mL	Cyanide, Free	1 mg/L
							Cyanide, Non-amenable	1 mg/L
							Cyanide, Total	1 mg/L
							Cyanide, Weak Acid Dissociable	1 mg/L
.WCCN10PPM2_00191	01/07/15	12/31/14	NAOH, Lot 1805823	100 mL	WCCN1000PPM_00021	1 mL	Cyanide, Free	10 mg/L
							Cyanide, Non-amenable	10 mg/L
							Cyanide, Total	10 mg/L
							Cyanide, Weak Acid Dissociable	10 mg/L

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..WCCN1000PPM_00021	01/24/15		LABCHEM, Lot D199-09		(Purchased Reagent)		Cyanide, Free	1000 mg/L
							Cyanide, Non-amenable	1000 mg/L
							Cyanide, Total	1000 mg/L
							Cyanide, Weak Acid Dissociable	1000 mg/L
WCCOD1000_00011	03/31/15		HACH, Lot A4072		(Purchased Reagent)		Chemical Oxygen Demand	1000 ppm
WCERAPHEN0L_00018	01/31/16		ERA, Lot P217-502		(Purchased Reagent)		Cyanide, Non-amenable	0.921 mg/L
							Cyanide, Total	0.921 mg/L
							Phenols, Total	0.702 mg/L
wchemlcs_00085	02/07/15	01/07/15	ACETONE, Lot K42E14	200 mL	WCHEMHEXADECA_00006	0.4 g	HEM (Oil & Grease)	4000 mg/L
							HEM Polar (Oil and Grease - Polar)	4000 mg/L
					WCHEMSTEARIC_00004	0.4 g	(HEM) - (SGT-HEM)	2000 mg/L
							HEM (Oil & Grease)	4000 mg/L
							HEM Polar (Oil and Grease - Polar)	4000 mg/L
							SGT HEM (Oil and Grease - Nonpolar)	2000 mg/L
							SGT-HEM	2000 mg/L
.WCHEMHEXADECA_00006	11/05/15		Alfa Aesar, Lot K24W010		(Purchased Reagent)		HEM (Oil & Grease)	1 g/g
							HEM Polar (Oil and Grease - Polar)	1 g/g
.WCHEMSTEARIC_00004	03/28/18		ALFA AESAR, Lot I29X007		(Purchased Reagent)		(HEM) - (SGT-HEM)	1 g/g
							HEM (Oil & Grease)	1 g/g
							HEM Polar (Oil and Grease - Polar)	1 g/g
							SGT HEM (Oil and Grease - Nonpolar)	1 g/g
							SGT-HEM	1 g/g
WCNH31000_00031	08/12/16		LabChem, Lot D223-16		(Purchased Reagent)		Ammonia	1000 mg/L as NH3
							Nitrogen, Kjeldahl	1000 mg/L as NH3
WCPH7_00042	04/30/15		Fisher Scientific, Lot 132908		(Purchased Reagent)		pH	7 SU
WCPHLCS_00010	08/31/16		Phenova, Lot 8137-15		(Purchased Reagent)		pH	6.15 SU
WCPHOS50PPM_00055	01/19/15	12/19/14	DIWATER, Lot 2222	100 mL	WCPHOSPHATE_00005	5 mL	Orthophosphate as P	50 mg/L
							Phosphorus as PO4	153.5 mg/L
							Total Phosphorus as P	50 mg/L
.WCPHOSPHATE_00005	07/18/16		LABCHEM, Lot D198-09		(Purchased Reagent)		Orthophosphate as P	1000 mg/L
							Phosphorus as PO4	3070 mg/L
							Total Phosphorus as P	1000 mg/L
WCWIBBYNUTRIE_00021	02/05/15		WIBBY, Lot 8904-11		(Purchased Reagent)		Nitrogen, Kjeldahl	24.9 mg/L
							Phosphorus as PO4	9.6 mg/L
							Total Phosphorus as P	3.13 mg/L
							Total Phosphorus as PO4	9.6 mg/L
WCWIBBYSOLIDS_00013	07/31/17		PHENOVA, Lot 8147-09		(Purchased Reagent)		Total Suspended Solids	22.3 mg/L

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-45978-1
Project/Site: MRC Block E MPE System O&M

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL_UP

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DCA #	BFB #
DSP-2-123014 (GRAB)	240-45978-1	106	98
	MB 240-163033/5	106	99
	LCS 240-163033/6	100	98
	240-45981-A-1 MS	112	100

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab File ID: UX947872.D Lab Sample ID: MB 240-163033/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX9 Date Analyzed: 12/31/2014 17:05

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 240-163033/6	UX947870.D	12/31/2014 16:21
DSP-2-123014 (GRAB)	240-45978-1	UX947873.D	12/31/2014 17:28
	240-45981-A-1 MS	UX947876.D	12/31/2014 18:37

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab File ID: BFB2886.D BFB Injection Date: 12/22/2014

Instrument ID: A3UX9 BFB Injection Time: 17:25

Analysis Batch No.: 162216

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.4	
75	30.0 - 60.0 % of mass 95	46.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.5	(0.6)1
174	50.0 - 120.00 % of mass 95	84.7	
175	5.0 - 9.0 % of mass 174	6.1	(7.2)1
176	95.0 - 101.0 % of mass 174	82.1	(96.9)1
177	5.0 - 9.0 % of mass 176	5.3	(6.5)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 240-162216/3	UX947740.D	12/22/2014	18:15
	STD8260 240-162216/4	UX947741.D	12/22/2014	18:38
	STD8260 240-162216/5	UX947742.D	12/22/2014	19:01
	STD8260 240-162216/6	UX947743.D	12/22/2014	19:24
	STD8260 240-162216/7	UX947744.D	12/22/2014	19:47
	STD8260 240-162216/8	UX947745.D	12/22/2014	20:10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab File ID: BFB2893.D BFB Injection Date: 12/31/2014

Instrument ID: A3UX9 BFB Injection Time: 15:33

Analysis Batch No.: 163033

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.4	
75	30.0 - 60.0 % of mass 95	45.4	
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	0.2	(0.2)1
174	50.0 - 120.00 % of mass 95	92.0	
175	5.0 - 9.0 % of mass 174	7.0	(7.6)1
176	95.0 - 101.0 % of mass 174	90.3	(98.1)1
177	5.0 - 9.0 % of mass 176	5.8	(6.4)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 240-163033/3	UX947869.D	12/31/2014	15:59
	LCS 240-163033/6	UX947870.D	12/31/2014	16:21
	CCV 240-163033/4	UX947871.D	12/31/2014	16:42
	MB 240-163033/5	UX947872.D	12/31/2014	17:05
DSP-2-123014 (GRAB)	240-45978-1	UX947873.D	12/31/2014	17:28
	240-45981-A-1 MS	UX947876.D	12/31/2014	18:37

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: STD8260 240-162216/5 Date Analyzed: 12/22/2014 19:01

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX947742.D Heated Purge: (Y/N) N

Calibration ID: 25876

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1173869	5.57	1037026	8.32	516095	10.58
UPPER LIMIT		2347738	6.07	2074052	8.82	1032190	11.08
LOWER LIMIT		586935	5.07	518513	7.82	258048	10.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 240-163033/3		1155896	5.57	1014316	8.32	494940	10.58

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 624

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: CCVIS 240-163033/3 Date Analyzed: 12/31/2014 15:59

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX947869.D Heated Purge: (Y/N) N

Calibration ID: 25889

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1155896	5.57	1014316	8.32	494940	10.58
UPPER LIMIT		2311792	6.07	2028632	8.82	989880	11.08
LOWER LIMIT		577948	5.07	507158	7.82	247470	10.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-163033/6		1160782	5.57	1014220	8.33	510869	10.59
CCV 240-163033/4		1128529	5.57	1016120	8.32	514332	10.58
MB 240-163033/5		1106879	5.57	982964	8.32	461638	10.58
240-45978-1	DSP-2-123014 (GRAB)	1146236	5.57	1013371	8.32	516887	10.59
240-45981-A-1 MS		1105087	5.57	1002382	8.32	540556	10.58

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: DSP-2-123014 (GRAB) | Lab Sample ID: 240-45978-1

Matrix: Water | Lab File ID: UX947873.D

Analysis Method: 624 | Date Collected: 12/30/2014 10:40

Sample wt/vol: 5(mL) | Date Analyzed: 12/31/2014 17:28

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.: 163033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.17	U	1.0	0.17
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
110-75-8	2-Chloroethyl vinyl ether	1.2	U	2.0	1.2
107-02-8	Acrolein	1.4	U	20	1.4
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.24	U	1.0	0.24
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	2.0	0.63
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.33	U	2.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
100-41-4	Ethylbenzene	0.30	J	1.0	0.23
75-09-2	Methylene Chloride	0.28	U	2.0	0.28
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.46	J	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	0.50	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Client Sample ID: DSP-2-123014 (GRAB) Lab Sample ID: 240-45978-1

Matrix: Water Lab File ID: UX947873.D

Analysis Method: 624 Date Collected: 12/30/2014 10:40

Sample wt/vol: 5(mL) Date Analyzed: 12/31/2014 17:28

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.: 163033 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-125
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 162216

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2014 18:15 Calibration End Date: 12/22/2014 20:10 Calibration ID: 25876

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-162216/8	UX947745.D
Level 2	STD8260 240-162216/7	UX947744.D
Level 3	STD8260 240-162216/6	UX947743.D
Level 4	STD8260 240-162216/5	UX947742.D
Level 5	STD8260 240-162216/4	UX947741.D
Level 6	STD8260 240-162216/3	UX947740.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	+++++ 0.3841	0.3772	0.3722	0.3337	0.4607	Ave		0.3856				12.0		35.0			
Chloromethane	0.3989 0.3421	0.3840	0.3395	0.3594	0.3327	Ave		0.3594				7.4		35.0			
Vinyl chloride	0.3410 0.3901	0.4114	0.3436	0.3579	0.3816	Ave		0.3709				7.6		35.0			
Bromomethane	0.2752 0.3137	0.3353	0.2765	0.2744	0.2814	Ave		0.2927				8.8		35.0			
Chloroethane	0.2487 0.2799	0.2900	0.2335	0.2584	0.2703	Ave		0.2635				7.9		35.0			
Dichlorofluoromethane	0.5099 0.5830	0.5533	0.5104	0.5238	0.5306	Ave		0.5352				5.3		35.0			
Trichlorofluoromethane	+++++ 0.5930	0.2682	0.4937	0.4855	0.6191	Ave		0.4919				28.0		35.0			
Acrolein	0.0318 0.0300	0.0293	0.0261	0.0283	0.0287	Ave		0.0290				6.4		35.0			
1,1-Dichloroethene	0.5111 0.5249	0.5122	0.4519	0.4604	0.4248	Ave		0.4809				8.4		35.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2954 0.3329	0.2860	0.3143	0.2443	0.2685	Ave		0.2902				11.0		35.0			
Acetone	+++++ 0.0778	0.1654	0.0730	0.0742	0.0716	Lin1	0.1609	0.0733							0.9960		0.9900
Carbon disulfide	0.5764 0.7240	0.8276	0.6433	0.6125	0.6371	Ave		0.6702				14.0		35.0			
Methyl acetate	0.2559 0.1892	0.2231	0.1832	0.1935	0.1879	Ave		0.2055				14.0		35.0			
Methylene Chloride	+++++ 0.3894	0.4906	0.3596	0.3844	0.3803	Ave		0.4009				13.0		35.0			
Acrylonitrile	0.1023 0.1046	0.1030	0.0967	0.1017	0.1023	Ave		0.1018				2.6		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 162216

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2014 18:15 Calibration End Date: 12/22/2014 20:10 Calibration ID: 25876

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								
Methyl tert-butyl ether	1.0419 1.0224	0.9992	0.9115	0.9765	0.9535	Ave		0.9842				4.8		35.0			
trans-1,2-Dichloroethene	0.4134 0.4360	0.4034	0.3556	0.4062	0.3673	Ave		0.3970				7.6		35.0			
Hexane	0.3539 0.2429	0.3633	0.2868	0.2125	0.2540	Ave		0.2856				22.0		35.0			
1,1-Dichloroethane	0.5662 0.5087	0.4922	0.4579	0.5032	0.4708	Ave		0.4998				7.6		35.0			
Vinyl acetate	+++++ 0.2741	0.2561	0.2420	0.2767	0.2542	Ave		0.2606				5.6		35.0			
cis-1,2-Dichloroethene	0.5472 0.4214	0.4659	0.4064	0.4250	0.3905	Ave		0.4427				13.0		35.0			
2-Butanone (MEK)	0.1696 0.1179	0.1520	0.0996	0.1040	0.1064	Ave		0.1249				23.0		35.0			
Chlorobromomethane	0.2081 0.2210	0.2294	0.2249	0.2258	0.2094	Ave		0.2198				4.1		35.0			
Chloroform	0.5904 0.5758	0.5456	0.5284	0.5850	0.5444	Ave		0.5616				4.5		35.0			
1,1,1-Trichloroethane	0.3964 0.4543	0.3997	0.4068	0.4094	0.3812	Ave		0.4080				6.1		35.0			
Cyclohexane	0.4172 0.4172	0.4381	0.3978	0.2966	0.3391	Ave		0.3843				14.0		35.0			
1,1-Dichloropropene	0.3812 0.3941	0.4144	0.3802	0.3654	0.3221	Ave		0.3762				8.3		35.0			
Carbon tetrachloride	0.3309 0.4795	0.3847	0.3990	0.3742	0.3669	Ave		0.3892				13.0		35.0			
Isobutyl alcohol	0.0100 0.0079	0.0072	0.0071	0.0069	0.0074	Ave		0.0077				15.0		35.0			
Benzene	1.5687 1.2720	1.4323	1.2827	1.3937	1.2449	Ave		1.3657				9.1		35.0			
1,2-Dichloroethane	0.4270 0.4351	0.4712	0.4021	0.4358	0.4129	Ave		0.4307				5.5		35.0			
Trichloroethene	0.4903 0.4227	0.4858	0.3800	0.4140	0.3667	Ave		0.4266				12.0		35.0			
Methylcyclohexane	0.5068 0.3818	0.6255	0.4374	0.3305	0.3869	Ave		0.4448				24.0		35.0			
1,2-Dichloropropane	0.2816 0.2997	0.3745	0.2734	0.3078	0.2802	Ave		0.3029				12.0		35.0			
Dichlorobromomethane	0.4213 0.4841	0.4329	0.4038	0.4717	0.4525	Ave		0.4444				6.9		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 162216

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2014 18:15 Calibration End Date: 12/22/2014 20:10 Calibration ID: 25876

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								
2-Chloroethyl vinyl ether	0.3423 0.3569	0.3580	0.3176	0.3436	0.3303	Ave		0.3414				4.6		35.0			
cis-1,3-Dichloropropene	0.5045 0.5406	0.5254	0.4825	0.5255	0.5075	Ave		0.5143				4.0		35.0			
4-Methyl-2-pentanone (MIBK)	0.2752 0.2565	0.2609	0.2298	0.2472	0.2408	Ave		0.2517				6.4		35.0			
Toluene	1.9152 1.5505	1.8859	1.6958	1.7933	1.6422	Ave		1.7471				8.2		35.0			
trans-1,3-Dichloropropene	0.4885 0.5714	0.4707	0.4826	0.5487	0.5408	Ave		0.5171				8.1		35.0			
1,1,2-Trichloroethane	0.3733 0.3984	0.3888	0.3756	0.3882	0.3866	Ave		0.3851				2.4		35.0			
Tetrachloroethene	0.4487 0.4411	0.4994	0.3930	0.4100	0.3773	Ave		0.4283				10.0		35.0			
1,3-Dichloropropane	0.6917 0.6513	0.6761	0.6215	0.6780	0.6454	Ave		0.6607				3.9		35.0			
2-Hexanone	0.2070 0.2125	0.2175	0.1893	0.1970	0.2010	Ave		0.2040				5.1		35.0			
Chlorodibromomethane	0.4195 0.4801	0.4899	0.3918	0.4412	0.4507	Ave		0.4455				8.3		35.0			
Ethylene Dibromide	0.3955 0.4275	0.4078	0.3781	0.4121	0.4094	Ave		0.4051				4.1		35.0			
Chlorobenzene	1.4333 1.1850	1.4133	1.1784	1.3073	1.2064	Ave		1.2873				9.0		35.0			
1,1,1,2-Tetrachloroethane	0.4048 0.5040	0.4284	0.4162	0.4768	0.4700	Ave		0.4500				8.7		35.0			
Ethylbenzene	0.6641 0.6717	0.6852	0.5901	0.6548	0.6105	Ave		0.6461				5.8		35.0			
m-Xylene & p-Xylene	0.7433 0.8234	0.9168	0.6981	0.7932	0.7574	Ave		0.7887				9.6		35.0			
o-Xylene	0.8191 0.8272	0.8299	0.7311	0.8161	0.7710	Ave		0.7991				5.0		35.0			
Styrene	1.2121 1.2769	1.2168	1.1579	1.3499	1.2941	Ave		1.2513				5.5		35.0			
Bromoform	0.2648 0.3779	0.2867	0.2650	0.3107	0.3280	Ave		0.3055				14.0		35.0			
Isopropylbenzene	1.8583 1.5388	1.9236	1.6673	1.7747	1.6222	Ave		1.7308				8.5		35.0			
1,1,2,2-Tetrachloroethane	0.9400 0.9317	1.0908	1.0105	1.0016	0.9457	Ave		0.9867				6.2		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 162216

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2014 18:15 Calibration End Date: 12/22/2014 20:10 Calibration ID: 25876

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								
1,3,5-Trimethylbenzene	3.3048 2.4259	3.5459	2.9275	3.1376	2.6382	Ave		2.9967				14.0		35.0			
1,2,4-Trimethylbenzene	3.4779 2.5317	3.8026	3.2422	3.3321	2.9175	Ave		3.2173				14.0		35.0			
1,3-Dichlorobenzene	2.6058 1.8610	2.6000	1.9481	2.1365	1.9414	Ave		2.1821				16.0		35.0			
1,4-Dichlorobenzene	2.7516 1.9209	2.6514	2.1030	2.2117	2.0553	Ave		2.2823				15.0		35.0			
1,2-Dichlorobenzene	2.6626 1.8398	2.5781	1.9844	2.0921	1.9868	Ave		2.1906				16.0		35.0			
1,2,4-Trichlorobenzene	1.9822 1.0564	2.1609	1.2396	1.2750	1.1878	Ave		1.4836				31.0		35.0			
Naphthalene	3.5533 2.4915	4.1392	3.1777	3.1482	2.9709	Ave		3.2468				17.0		35.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3174	0.3452	0.3036	0.3265	0.3033	Ave		0.3192				5.5		35.0			
Toluene-d8 (Surr)	+++++ 1.2627	1.4749	1.2995	1.3664	1.3111	Ave		1.3429				6.2		35.0			
4-Bromofluorobenzene (Surr)	+++++ 0.5826	0.6424	0.5186	0.5539	0.5418	Ave		0.5679				8.4		35.0			

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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 162216

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2014 18:15 Calibration End Date: 12/22/2014 20:10 Calibration ID: 25876

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-162216/8	UX947745.D
Level 2	STD8260 240-162216/7	UX947744.D
Level 3	STD8260 240-162216/6	UX947743.D
Level 4	STD8260 240-162216/5	UX947742.D
Level 5	STD8260 240-162216/4	UX947741.D
Level 6	STD8260 240-162216/3	UX947740.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 1798501	19267	210542	391727	1071455	+++++ 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	10161 1601597	19616	192076	421877	773860	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	8686 1826416	21016	194362	420171	887520	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	7009 1468600	17127	156406	322060	654539	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	6334 1310270	14813	132117	303359	628782	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	12989 2729784	28267	288760	614826	1234191	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	+++++ 2776322	13703	279289	569938	1439923	+++++ 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	4047 701373	7486	73936	166152	334056	2.50 400	5.00	50.0	100	200
1,1-Dichloroethene	FB	Ave	13018 2457600	26165	255675	540493	988062	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	7525 1558708	14608	177810	286729	624596	0.500 80.0	1.00	10.0	20.0	40.0
Acetone	FB	Lin1	+++++ 728745	16896	82621	174303	333253	+++++ 160	2.00	20.0	40.0	80.0
Carbon disulfide	FB	Ave	14682 3389590	42279	363964	719018	1481882	0.500 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	32595 4428854	56997	518224	1135539	2184882	2.50 400	5.00	50.0	100	200
Methylene Chloride	FB	Ave	+++++ 1822970	25063	203461	451212	884504	+++++ 80.0	1.00	10.0	20.0	40.0
Acrylonitrile	FB	Ave	26055 4896598	52603	547210	1193523	2379662	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	26539 4786953	51045	515657	1146309	2217843	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 162216

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2014 18:15 Calibration End Date: 12/22/2014 20:10 Calibration ID: 25876

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
trans-1,2-Dichloroethene	FB	Ave	10529 2041308	20608	201187	476824	854275	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	9015 1137213	18559	162266	249479	590862	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	14423 2381730	25143	259036	590672	1095054	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	+++++ 1283316	13083	136904	324763	591302	+++++ 80.0	1.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	13938 1972748	23800	229902	498889	908383	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	8641 1104012	15532	112673	244207	495064	1.00 160	2.00	20.0	40.0	80.0
Chlorobromomethane	FB	Ave	5302 1034517	11720	127247	265050	487051	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	15038 2695890	27872	298933	686764	1266271	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	10098 2127158	20418	230145	480574	886559	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	10626 1953170	22382	225074	348207	788798	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	9710 1845209	21170	215076	428916	749238	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	8430 2244836	19651	225721	439305	853481	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	6394 922757	9146	100412	201796	432260	12.5 2000	25.0	250	500	1000
Benzene	FB	Ave	39958 5955408	73167	725643	1636068	2895490	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	10876 2037049	24071	227467	511576	960296	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	12489 1979271	24818	214992	486034	853006	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	12909 1787788	31955	247459	387940	899820	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	7174 1403117	19132	154687	361324	651773	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	10732 2266363	22114	228446	553730	1052522	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	10462 2005236	21943	215579	483948	921824	0.600 96.0	1.20	12.0	24.0	48.0
cis-1,3-Dichloropropene	FB	Ave	12850 2531134	26840	272962	616899	1180459	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 162216

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2014 18:15 Calibration End Date: 12/22/2014 20:10 Calibration ID: 25876

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methyl-2-pentanone (MIBK)	FB	Ave	14020 2401932	26659	259958	580356	1120310	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	44313 6405755	87314	834549	1859722	3246284	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	11304 2360801	21791	237513	568970	1069029	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	8638 1646075	17999	184832	402583	764172	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	10383 1822212	23123	193418	425176	745803	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	16004 2690623	31301	305861	703105	1275848	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	9578 1755914	20138	186271	408629	794535	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	9706 1983554	22682	192819	457554	890993	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	9151 1766300	18879	186058	427378	809217	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	33163 4895899	65435	579907	1355703	2384793	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	9366 2082299	19836	204812	494415	929151	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	15365 2775039	31724	290408	679095	1206737	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	17198 3401900	42446	343561	822585	1497184	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	18953 3417571	38422	359795	846280	1524125	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	28046 5275500	56336	569819	1399872	2558111	0.500 80.0	1.00	10.0	20.0	40.0
Bromoform	CBZ	Ave	6127 1561462	13274	130409	322247	648393	0.500 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	42998 6357547	89060	820504	1840452	3206774	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	10921 2231140	25263	230807	516946	1016987	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	38396 5809248	82122	668669	1619293	2837149	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	40407 6062425	88067	740532	1719705	3137479	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	30275 4456424	60215	444961	1102651	2087793	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 162216

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/22/2014 18:15 Calibration End Date: 12/22/2014 20:10 Calibration ID: 25876

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	31969 4599758	61406	480342	1141440	2210339	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	30935 4405554	59708	453241	1079744	2136651	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	23029 2529810	50045	283127	658014	1277375	0.500 80.0	1.00	10.0	20.0	40.0
Naphthalene	DCB	Ave	41283 5966365	95863	725815	1624773	3194894	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 1485953	17636	171775	383291	705544	+++++ 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 5216587	68288	639507	1416958	2591706	+++++ 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	+++++ 2406805	29741	255235	574397	1071004	+++++ 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCVIS 240-163033/3 Calibration Date: 12/31/2014 15:59

Instrument ID: A3UX9 Calib Start Date: 12/22/2014 18:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 12/22/2014 20:10

Lab File ID: UX947869.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	0.3856	0.5613		0.0291	0.0200	45.6	
Chloromethane	Ave	0.3594	0.3886		0.0216	0.0200	8.1	99.0
Vinyl chloride	Ave	0.3709	0.4332		0.0234	0.0200	16.8	96.0
Bromomethane	Ave	0.2927	0.2897		0.0198	0.0200	-1.0	86.0
Chloroethane	Ave	0.2635	0.2742		0.0208	0.0200	4.1	62.0
Dichlorofluoromethane	Ave	0.5352	0.5593		0.0209	0.0200	4.5	
Trichlorofluoromethane	Ave	0.4919	0.6474		0.0263	0.0200	31.6	52.0
Ethyl ether	Ave	0.2434	0.2547		0.0209	0.0200	4.6	
Acrolein	Ave	0.0290	0.0301		0.104	0.100	3.8	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2902	0.3894		0.0268	0.0200	34.2	
1,1-Dichloroethene	Ave	0.4809	0.5518		0.0230	0.0200	14.8	49.0
Acetone	Lin1		0.0777		0.0402	0.0400	0.5	
Iodomethane	Ave	0.5736	0.6417		0.0224	0.0200	11.9	
Carbon disulfide	Ave	0.6702	0.7279		0.0217	0.0200	8.6	
Methyl acetate	Ave	0.2055	0.2033		0.0989	0.100	-1.1	
Methylene Chloride	Ave	0.4009	0.3909		0.0195	0.0200	-2.5	39.0
2-Methyl-2-propanol	Ave	0.0260	0.0285		0.220	0.200	9.8	
Acrylonitrile	Ave	0.1018	0.1074		0.211	0.200	5.5	
Methyl tert-butyl ether	Ave	0.9842	1.005		0.0204	0.0200	2.1	
trans-1,2-Dichloroethene	Ave	0.3970	0.4183		0.0211	0.0200	5.4	30.0
Hexane	Ave	0.2856	0.3037		0.0213	0.0200	6.3	
1,1-Dichloroethane	Ave	0.4998	0.5118		0.0205	0.0200	2.4	27.0
Vinyl acetate	Ave	0.2606	0.2601		0.0192	0.0192	-0.2	
2,2-Dichloropropane	Ave	0.2437	0.2597		0.0213	0.0200	6.5	
2-Butanone (MEK)	Ave	0.1249	0.1121		0.0359	0.0400	-10.3	
cis-1,2-Dichloroethene	Ave	0.4427	0.4210		0.0190	0.0200	-4.9	
Chlorobromomethane	Ave	0.2198	0.2257		0.0205	0.0200	2.7	
Chloroform	Ave	0.5616	0.5561		0.0198	0.0200	-1.0	33.0
1,1,1-Trichloroethane	Ave	0.4080	0.4639		0.0227	0.0200	13.7	25.0
Cyclohexane	Ave	0.3843	0.4663		0.0243	0.0200	21.3	
1,1-Dichloropropene	Ave	0.3762	0.4050		0.0215	0.0200	7.6	
Carbon tetrachloride	Ave	0.3892	0.4659		0.0239	0.0200	19.7	27.0
Isobutyl alcohol	Ave	0.0077	0.0080		0.516	0.500	3.2	
Benzene	Ave	1.366	1.392		0.0204	0.0200	1.9	36.0
1,2-Dichloroethane	Ave	0.4307	0.4312		0.0200	0.0200	0.1	32.0
Trichloroethene	Ave	0.4266	0.4137		0.0194	0.0200	-3.0	33.0
Methylcyclohexane	Ave	0.4448	0.4280		0.0192	0.0200	-3.8	
1,2-Dichloropropane	Ave	0.3029	0.2915		0.0192	0.0200	-3.8	66.0
Dibromomethane	Ave	0.2551	0.2664		0.0209	0.0200	4.4	
Dichlorobromomethane	Ave	0.4444	0.4391		0.0198	0.0200	-1.2	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCVIS 240-163033/3 Calibration Date: 12/31/2014 15:59

Instrument ID: A3UX9 Calib Start Date: 12/22/2014 18:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 12/22/2014 20:10

Lab File ID: UX947869.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	0.3414	0.2054		0.0241	0.0400	-39.9	99.0
cis-1,3-Dichloropropene	Ave	0.5143	0.5189		0.0202	0.0200	0.9	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2517	0.2498		0.0397	0.0400	-0.8	
Toluene	Ave	1.747	1.886		0.0216	0.0200	8.0	26.0
trans-1,3-Dichloropropene	Ave	0.5171	0.5326		0.0206	0.0200	3.0	50.0
Ethyl methacrylate	Ave	0.4392	0.4430		0.0202	0.0200	0.9	
1,1,2-Trichloroethane	Ave	0.3851	0.3911		0.0203	0.0200	1.5	29.0
Tetrachloroethene	Ave	0.4283	0.4415		0.0206	0.0200	3.1	26.0
1,3-Dichloropropane	Ave	0.6607	0.6585		0.0199	0.0200	-0.3	
2-Hexanone	Ave	0.2040	0.2072		0.0406	0.0400	1.6	
Chlorodibromomethane	Ave	0.4455	0.4207		0.0189	0.0200	-5.6	33.0
Ethylene Dibromide	Ave	0.4051	0.4030		0.0199	0.0200	-0.5	
Chlorobenzene	Ave	1.287	1.249		0.0194	0.0200	-3.0	34.0
1,1,1,2-Tetrachloroethane	Ave	0.4500	0.4401		0.0196	0.0200	-2.2	
Ethylbenzene	Ave	0.6461	0.6300		0.0195	0.0200	-2.5	41.0
m-Xylene & p-Xylene	Ave	0.7887	0.7706		0.0195	0.0200	-2.3	
o-Xylene	Ave	0.7991	0.7705		0.0193	0.0200	-3.6	
Styrene	Ave	1.251	1.270		0.0203	0.0200	1.5	
Bromoform	Ave	0.3055	0.2986		0.0195	0.0200	-2.3	29.0
Isopropylbenzene	Ave	1.731	1.709		0.0197	0.0200	-1.3	
1,1,2,2-Tetrachloroethane	Ave	0.9867	0.999		0.0203	0.0200	1.3	39.0
Bromobenzene	Ave	1.173	1.164		0.0199	0.0200	-0.7	
1,2,3-Trichloropropane	Ave	0.3759	0.4091		0.0218	0.0200	8.8	
trans-1,4-Dichloro-2-butene	Ave	0.2626	0.2798		0.0213	0.0200	6.6	
N-Propylbenzene	Ave	1.032	1.002		0.0194	0.0200	-2.9	
2-Chlorotoluene	Ave	0.9835	0.9510		0.0193	0.0200	-3.3	
1,3,5-Trimethylbenzene	Ave	2.997	2.856		0.0191	0.0200	-4.7	
4-Chlorotoluene	Ave	1.069	1.024		0.0192	0.0200	-4.1	
tert-Butylbenzene	Ave	2.791	2.490		0.0178	0.0200	-10.8	
1,2,4-Trimethylbenzene	Ave	3.217	3.019		0.0188	0.0200	-6.2	
sec-Butylbenzene	Ave	0.9275	0.7723		0.0167	0.0200	-16.7	
1,3-Dichlorobenzene	Ave	2.182	1.908		0.0175	0.0200	-12.6	27.0
4-Isopropyltoluene	Ave	3.412	2.983		0.0175	0.0200	-12.6	
1,4-Dichlorobenzene	Ave	2.282	2.077		0.0182	0.0200	-9.0	37.0
n-Butylbenzene	Ave	2.894	2.254		0.0156	0.0200	-22.1	
1,2-Dichlorobenzene	Ave	2.191	1.961		0.0179	0.0200	-10.5	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.2423	0.2504		0.0207	0.0200	3.4	
1,2,4-Trichlorobenzene	Ave	1.484	1.131		0.0152	0.0200	-23.8	
Hexachlorobutadiene	Lin1		0.4211		0.0187	0.0200	-6.3	
Naphthalene	Ave	3.247	3.121		0.0192	0.0200	-3.9	
1,2,3-Trichlorobenzene	Lin1		1.026		0.0203	0.0200	1.6	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCVIS 240-163033/3 Calibration Date: 12/31/2014 15:59

Instrument ID: A3UX9 Calib Start Date: 12/22/2014 18:15

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 12/22/2014 20:10

Lab File ID: UX947869.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-Dichloroethane-d4 (Surr)	Ave	0.3192	0.3232		0.0156	0.0154	1.2	20.0
Toluene-d8 (Surr)	Ave	1.343	1.458		0.0167	0.0154	8.6	
4-Bromofluorobenzene (Surr)	Ave	0.5679	0.5676		0.0154	0.0154	-0.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-163033/5

Matrix: Water | Lab File ID: UX947872.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/31/2014 17:05

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.: 163033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.22	U	1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.17	U	1.0	0.17
75-34-3	1,1-Dichloroethane	0.26	U	1.0	0.26
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.17	U	1.0	0.17
107-06-2	1,2-Dichloroethane	0.20	U	1.0	0.20
78-87-5	1,2-Dichloropropane	0.22	U	1.0	0.22
541-73-1	1,3-Dichlorobenzene	0.17	U	1.0	0.17
106-46-7	1,4-Dichlorobenzene	0.16	U	1.0	0.16
110-75-8	2-Chloroethyl vinyl ether	1.2	U	2.0	1.2
107-02-8	Acrolein	1.4	U	20	1.4
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.24	U	1.0	0.24
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.63	U	2.0	0.63
56-23-5	Carbon tetrachloride	0.17	U	1.0	0.17
108-90-7	Chlorobenzene	0.19	U	1.0	0.19
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.33	U	2.0	0.33
67-66-3	Chloroform	0.21	U	1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.15	U	1.0	0.15
100-41-4	Ethylbenzene	0.23	U	1.0	0.23
75-09-2	Methylene Chloride	0.28	U	2.0	0.28
127-18-4	Tetrachloroethene	0.20	U	1.0	0.20
108-88-3	Toluene	0.22	U	1.0	0.22
156-60-5	trans-1,2-Dichloroethene	0.26	U	0.50	0.26
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.15	U	1.0	0.15
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-163033/5

Matrix: Water Lab File ID: UX947872.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/31/2014 17:05

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.: 163033 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		80-125
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-163033/6

Matrix: Water | Lab File ID: UX947870.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/31/2014 16:21

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.: 163033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	23.1		1.0	0.22
79-34-5	1,1,2,2-Tetrachloroethane	20.3		1.0	0.22
79-00-5	1,1,2-Trichloroethane	20.3		1.0	0.17
75-34-3	1,1-Dichloroethane	22.0		1.0	0.26
75-35-4	1,1-Dichloroethene	22.3		1.0	0.45
95-50-1	1,2-Dichlorobenzene	18.2		1.0	0.17
107-06-2	1,2-Dichloroethane	20.5		1.0	0.20
78-87-5	1,2-Dichloropropane	20.4		1.0	0.22
541-73-1	1,3-Dichlorobenzene	18.1		1.0	0.17
106-46-7	1,4-Dichlorobenzene	18.8		1.0	0.16
110-75-8	2-Chloroethyl vinyl ether	15.2		2.0	1.2
107-02-8	Acrolein	86.9		20	1.4
107-13-1	Acrylonitrile	217		20	6.3
71-43-2	Benzene	21.2		1.0	0.24
75-25-2	Bromoform	19.7		1.0	0.56
74-83-9	Bromomethane	16.6		2.0	0.63
56-23-5	Carbon tetrachloride	24.2		1.0	0.17
108-90-7	Chlorobenzene	20.0		1.0	0.19
124-48-1	Chlorodibromomethane	19.5		1.0	0.43
75-00-3	Chloroethane	17.7		2.0	0.33
67-66-3	Chloroform	21.7		1.0	0.21
10061-01-5	cis-1,3-Dichloropropene	22.1		1.0	0.46
75-27-4	Dichlorobromomethane	20.9		1.0	0.15
100-41-4	Ethylbenzene	20.7		1.0	0.23
75-09-2	Methylene Chloride	20.5		2.0	0.28
127-18-4	Tetrachloroethene	20.9		1.0	0.20
108-88-3	Toluene	21.7		1.0	0.22
156-60-5	trans-1,2-Dichloroethene	22.3		0.50	0.26
10061-02-6	trans-1,3-Dichloropropene	24.3		1.0	0.56
79-01-6	Trichloroethene	20.8		1.0	0.15
75-69-4	Trichlorofluoromethane	22.2		2.0	0.49
75-01-4	Vinyl chloride	17.2		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-163033/6

Matrix: Water Lab File ID: UX947870.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/31/2014 16:21

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.: 163033 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		80-125
460-00-4	4-Bromofluorobenzene (Surr)	98		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: | Lab Sample ID: 240-45981-A-1 MS

Matrix: Water | Lab File ID: UX947876.D

Analysis Method: 624 | Date Collected: 12/31/2014 09:30

Sample wt/vol: 1(mL) | Date Analyzed: 12/31/2014 18:37

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.: 163033 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	108		5.0	1.1
95-50-1	1,2-Dichlorobenzene	86.4		5.0	0.85
541-73-1	1,3-Dichlorobenzene	85.4		5.0	0.85
106-46-7	1,4-Dichlorobenzene	87.9		5.0	0.80
56-23-5	Carbon tetrachloride	112		5.0	0.85
108-90-7	Chlorobenzene	93.3		5.0	0.95
67-66-3	Chloroform	106		5.0	1.1

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		80-125
460-00-4	4-Bromofluorobenzene (Surr)	100		80-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A3UX9 Start Date: 12/22/2014 17:25

Analysis Batch Number: 162216 End Date: 12/23/2014 01:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-162216/34		12/22/2014 17:25	1	BFB2886.D	DB-624 0.18(mm)
STD8260 240-162216/3 IC		12/22/2014 18:15	1	UX947740.D	DB-624 0.18(mm)
STD8260 240-162216/4 IC		12/22/2014 18:38	1	UX947741.D	DB-624 0.18(mm)
STD8260 240-162216/5 ICIS		12/22/2014 19:01	1	UX947742.D	DB-624 0.18(mm)
STD8260 240-162216/6 IC		12/22/2014 19:24	1	UX947743.D	DB-624 0.18(mm)
STD8260 240-162216/7 IC		12/22/2014 19:47	1	UX947744.D	DB-624 0.18(mm)
STD8260 240-162216/8 IC		12/22/2014 20:10	1	UX947745.D	DB-624 0.18(mm)
STDA9 240-162216/10 IC		12/22/2014 20:56	1		DB-624 0.18(mm)
STDA9 240-162216/11 IC		12/22/2014 21:19	1		DB-624 0.18(mm)
STDA9 240-162216/12 IC		12/22/2014 21:42	1		DB-624 0.18(mm)
STDA9 240-162216/13 IC		12/22/2014 22:05	1		DB-624 0.18(mm)
STDA9 240-162216/14 IC		12/22/2014 22:28	1		DB-624 0.18(mm)
STDA9 240-162216/15 IC		12/22/2014 22:51	1		DB-624 0.18(mm)
ZZZZZ		12/23/2014 01:10	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A3UX9 Start Date: 12/31/2014 15:33

Analysis Batch Number: 163033 End Date: 12/31/2014 18:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-163033/1		12/31/2014 15:33	1	BFB2893.D	DB-624 0.18(mm)
CCVIS 240-163033/3		12/31/2014 15:59	1	UX947869.D	DB-624 0.18(mm)
LCS 240-163033/6		12/31/2014 16:21	1	UX947870.D	DB-624 0.18(mm)
CCV 240-163033/4		12/31/2014 16:42	1	UX947871.D	DB-624 0.18(mm)
MB 240-163033/5		12/31/2014 17:05	1	UX947872.D	DB-624 0.18(mm)
240-45978-1	DSP-2-123014 (GRAB)	12/31/2014 17:28	1	UX947873.D	DB-624 0.18(mm)
ZZZZZ		12/31/2014 17:51	1		DB-624 0.18(mm)
ZZZZZ		12/31/2014 18:14	1		DB-624 0.18(mm)
240-45981-A-1 MS		12/31/2014 18:37	1	UX947876.D	DB-624 0.18(mm)

624

Method 625

Semivolatile Organic Compounds (GC/MS) by Method 625

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

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 #
DSP-2-123014 (COMP)	240-45978-2	40	25	89	74	83	55
	MB 240-163064/2-A	58	38	93	78	86	87
	LCS 240-163064/3-A	53	37	89	75	88	83

	QC LIMITS
2FP = 2-Fluorophenol	10-135
PHL = Phenol-d5	10-132
NBZ = Nitrobenzene-d5	44-110
FBP = 2-Fluorobiphenyl (Surr)	38-110
TBP = 2,4,6-Tribromophenol	10-142
TPH = Terphenyl-d14	24-135

Column to be used to flag recovery values

FORM II 625

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 50105005.D

Lab ID: LCS 240-163064/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,2,4-Trichlorobenzene	20.0	12.9	65	44-142	
2,4,6-Trichlorophenol	20.0	15.5	77	37-144	
2,4-Dichlorophenol	20.0	16.2	81	39-135	
2,4-Dimethylphenol	20.0	15.5	78	32-119	
2,4-Dinitrotoluene	20.0	17.4	87	39-139	
2,6-Dinitrotoluene	20.0	16.5	82	50-158	
2-Chloronaphthalene	20.0	14.7	74	60-118	
2-Chlorophenol	20.0	15.1	75	23-134	
2-Nitrophenol	20.0	15.8	79	29-182	
3,3'-Dichlorobenzidine	40.0	33.5	84	0-262	
4,6-Dinitro-2-methylphenol	40.0	36.6 J	92	0-181	
4-Bromophenyl phenyl ether	20.0	15.5	78	53-127	
4-Chlorophenyl phenyl ether	20.0	14.9	75	25-158	
4-Nitrophenol	40.0	18.3 J	46	0-132	
Acenaphthene	20.0	14.8	74	47-145	
Acenaphthylene	20.0	14.5	73	33-145	
Anthracene	20.0	14.9	75	27-133	
Benzidine	40.0	29.2	73	10-120	
Benzo[a]anthracene	20.0	14.8	74	33-143	
Benzo[a]pyrene	20.0	15.5	78	17-163	
Benzo[b]fluoranthene	20.0	15.0	75	24-159	
Benzo[g,h,i]perylene	20.0	16.0	80	0-219	
Benzo[k]fluoranthene	20.0	17.0	85	11-162	
Bis(2-chloroethoxy)methane	20.0	16.6	83	33-184	
Bis(2-chloroethyl)ether	20.0	15.9	79	12-158	
Bis(2-ethylhexyl) phthalate	20.0	16.4	82	8-158	
2,2'-oxybis[1-chloropropane]	20.0	17.9	90	36-166	
Butyl benzyl phthalate	20.0	15.1	75	0-152	
Chrysene	20.0	14.9	75	17-168	
Dibenz(a,h)anthracene	20.0	15.5	78	0-227	
Diethyl phthalate	20.0	16.4	82	0-114	
Dimethyl phthalate	20.0	15.2	76	0-112	
Di-n-butyl phthalate	20.0	16.8	84	1-118	
Di-n-octyl phthalate	20.0	15.1	76	4-146	
Fluoranthene	20.0	15.9	80	26-137	
Fluorene	20.0	14.4	72	59-121	
Hexachlorobenzene	20.0	15.2	76	0-152	
Hexachlorobutadiene	20.0	12.6	63	24-116	
Hexachlorocyclopentadiene	20.0	9.50 J	47	4-120	
Hexachloroethane	20.0	12.0	60	40-113	
Indeno[1,2,3-cd]pyrene	20.0	16.2	81	0-171	
Isophorone	20.0	16.7	84	21-196	

Column to be used to flag recovery and RPD values

FORM III 625

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 50105005.D

Lab ID: LCS 240-163064/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Naphthalene	20.0	14.2	71	21-133	
Nitrobenzene	20.0	17.4	87	35-180	
N-Nitrosodimethylamine	20.0	11.7	59	10-110	
N-Nitrosodi-n-propylamine	20.0	17.8	89	0-230	
N-Nitrosodiphenylamine	40.0	30.3	76	38-120	
4-Chloro-3-methylphenol	20.0	16.9	84	22-147	
Pentachlorophenol	40.0	26.5	66	14-176	
Phenanthrene	20.0	15.2	76	54-120	
Phenol	20.0	7.20 J	36	5-112	
Pyrene	20.0	15.6	78	52-115	
1,2-Diphenylhydrazine	20.0	17.1	85	50-150	

Column to be used to flag recovery and RPD values

FORM III 625

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab File ID: 50105004.D Lab Sample ID: MB 240-163064/2-A

Matrix: Water Date Extracted: 01/02/2015 09:01

Instrument ID: A4HP9 Date Analyzed: 01/05/2015 08:53

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 240-163064/3-A	50105005.D	01/05/2015 09:18
DSP-2-123014 (COMP)	240-45978-2	50105006.D	01/05/2015 09:43

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab File ID: 41218001.D DFTPP Injection Date: 12/18/2014

Instrument ID: A4HP9 DFTPP Injection Time: 09:42

Analysis Batch No.: 161586

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	34.0	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	48.2	
70	Less than 2.0% of mass 69	0.2	(0.3)1
127	25.0 - 75.0% of mass 198	47.5	
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	6.7	
275	10.0- 30.0% of mass 198	22.3	
365	Greater than 0.75% of mass 198	2.9	
441	Present, but less than mass 443	7.6	
442	40.0 - 110.0% of mass 198	77.8	
443	15.0 - 24.0% of mass 442	14.5	(18.6)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
	STD5 240-161586/2	41218002.D	12/18/2014	10:03
	STD4 240-161586/3	41218003.D	12/18/2014	10:27
	STD3 240-161586/4	41218004.D	12/18/2014	10:52
	STD2 240-161586/5	41218005.D	12/18/2014	11:17
	STD1 240-161586/6	41218006.D	12/18/2014	11:42
	STD9 240-161586/7	41218007.D	12/18/2014	12:07
	STD8 240-161586/8	41218008.D	12/18/2014	12:32
	STD7 240-161586/9	41218009.D	12/18/2014	12:56
	STD6 240-161586/10	41218010.D	12/18/2014	13:21
	ICV 240-161586/11	41218011.D	12/18/2014	13:46

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab File ID: 50105001.D DFTPP Injection Date: 01/05/2015

Instrument ID: A4HP9 DFTPP Injection Time: 07:32

Analysis Batch No.: 163142

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0- 80.0% of mass 198	40.3	
68	Less than 2.0% of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	54.5	
70	Less than 2.0% of mass 69	0.1	(0.2)1
127	25.0 - 75.0% of mass 198	50.8	
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	6.7	
275	10.0- 30.0% of mass 198	23.5	
365	Greater than 0.75% of mass 198	3.0	
441	Present, but less than mass 443	12.4	
442	40.0 - 110.0% of mass 198	74.2	
443	15.0 - 24.0% of mass 442	14.0	(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
	CCV 240-163142/2	50105002.D	01/05/2015	07:53
	MB 240-163064/2-A	50105004.D	01/05/2015	08:53
	LCS 240-163064/3-A	50105005.D	01/05/2015	09:18
DSP-2-123014 (COMP)	240-45978-2	50105006.D	01/05/2015	09:43

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: STD6 240-161586/10 Date Analyzed: 12/18/2014 13:21

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 41218010.D Heated Purge: (Y/N) N

Calibration ID: 25844

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		145775	6.25	576570	7.36	338137	8.87
UPPER LIMIT		291550	6.75	1153140	7.86	676274	9.37
LOWER LIMIT		72888	5.75	288285	6.86	169069	8.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-161586/11		153496	6.25	600873	7.36	356386	8.86
CCV 240-163142/2 CCVIS		144740	6.12	581387	7.24	331951	8.74

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 625

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: STD6 240-161586/10 Date Analyzed: 12/18/2014 13:21

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 41218010.D Heated Purge: (Y/N) N

Calibration ID: 25844

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		517652	10.14	603732	12.41	512120	14.14
UPPER LIMIT		1035304	10.64	1207464	12.91	1024240	14.64
LOWER LIMIT		258826	9.64	301866	11.91	256060	13.64
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-161586/11		546608	10.13	648200	12.41	534935	14.14
CCV 240-163142/2 CCVIS		557113	10.00	598940	12.24	497471	13.86

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 625

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: CCV 240-163142/2 Date Analyzed: 01/05/2015 07:53

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 50105002.D Heated Purge: (Y/N) N

Calibration ID: 25930

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		144740	6.12	581387	7.24	331951	8.74
UPPER LIMIT		289480	6.62	1162774	7.74	663902	9.24
LOWER LIMIT		72370	5.62	290694	6.74	165976	8.24
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 240-163064/2-A		112523	6.12	450833	7.24	271765	8.74
LCS 240-163064/3-A		120269	6.12	489250	7.24	293656	8.74
240-45978-2	DSP-2-123014 (COMP)	121634	6.12	490515	7.24	292939	8.74

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 625

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: CCV 240-163142/2 Date Analyzed: 01/05/2015 07:53

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm)

Lab File ID (Standard): 50105002.D Heated Purge: (Y/N) N

Calibration ID: 25930

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		557113	10.00	598940	12.24	497471	13.86
UPPER LIMIT		1114226	10.50	1197880	12.74	994942	14.36
LOWER LIMIT		278557	9.50	299470	11.74	248736	13.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 240-163064/2-A		448984	10.00	486463	12.24	413802	13.85
LCS 240-163064/3-A		495908	10.00	548601	12.24	445139	13.85
240-45978-2	DSP-2-123014 (COMP)	499405	10.00	533090	12.24	457982	13.85

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 625

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: DSP-2-123014 (COMP) | Lab Sample ID: 240-45978-2

Matrix: Water | Lab File ID: 50105006.D

Analysis Method: 625 | Date Collected: 12/30/2014 10:40

Extract. Method: 625 | Date Extracted: 01/02/2015 09:01

Sample wt/vol: 1000(mL) | Date Analyzed: 01/05/2015 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.: 163142 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	0.28	U	10	0.28
88-06-2	2,4,6-Trichlorophenol	0.80	U	10	0.80
120-83-2	2,4-Dichlorophenol	0.80	U	10	0.80
105-67-9	2,4-Dimethylphenol	0.80	U	10	0.80
121-14-2	2,4-Dinitrotoluene	0.27	U	10	0.27
606-20-2	2,6-Dinitrotoluene	0.80	U	10	0.80
91-58-7	2-Chloronaphthalene	0.10	U	10	0.10
95-57-8	2-Chlorophenol	0.29	U	10	0.29
88-75-5	2-Nitrophenol	0.28	U	10	0.28
91-94-1	3,3'-Dichlorobenzidine	0.37	U	10	0.37
534-52-1	4,6-Dinitro-2-methylphenol	2.4	U	50	2.4
101-55-3	4-Bromophenyl phenyl ether	0.80	U	10	0.80
7005-72-3	4-Chlorophenyl phenyl ether	0.30	U	10	0.30
100-02-7	4-Nitrophenol	2.4	U	50	2.4
83-32-9	Acenaphthene	0.10	U	10	0.10
208-96-8	Acenaphthylene	0.10	U	10	0.10
120-12-7	Anthracene	0.10	U	10	0.10
92-87-5	Benzidine	2.4	U	5.0	2.4
56-55-3	Benzo[a]anthracene	0.10	U	10	0.10
50-32-8	Benzo[a]pyrene	0.10	U	10	0.10
205-99-2	Benzo[b]fluoranthene	0.10	U	10	0.10
191-24-2	Benzo[g,h,i]perylene	0.10	U	10	0.10
207-08-9	Benzo[k]fluoranthene	0.10	U	10	0.10
111-91-1	Bis(2-chloroethoxy)methane	0.32	U	10	0.32
111-44-4	Bis(2-chloroethyl)ether	0.10	U	10	0.10
117-81-7	Bis(2-ethylhexyl) phthalate	1.8	J	10	1.7
108-60-1	2,2'-oxybis[1-chloropropane]	0.40	U	10	0.40
85-68-7	Butyl benzyl phthalate	0.80	U	10	0.80
218-01-9	Chrysene	0.10	U	10	0.10
53-70-3	Dibenz(a,h)anthracene	0.10	U	10	0.10
84-66-2	Diethyl phthalate	0.60	U	10	0.60
131-11-3	Dimethyl phthalate	0.29	U	10	0.29
84-74-2	Di-n-butyl phthalate	1.7	U	10	1.7
117-84-0	Di-n-octyl phthalate	0.80	U	10	0.80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: DSP-2-123014 (COMP) | Lab Sample ID: 240-45978-2

Matrix: Water | Lab File ID: 50105006.D

Analysis Method: 625 | Date Collected: 12/30/2014 10:40

Extract. Method: 625 | Date Extracted: 01/02/2015 09:01

Sample wt/vol: 1000(mL) | Date Analyzed: 01/05/2015 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.: 163142 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	0.10	U	10	0.10
86-73-7	Fluorene	0.10	U	10	0.10
118-74-1	Hexachlorobenzene	0.10	U	10	0.10
87-68-3	Hexachlorobutadiene	0.27	U	10	0.27
77-47-4	Hexachlorocyclopentadiene	0.24	U	10	0.24
67-72-1	Hexachloroethane	0.80	U	10	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	0.10	U	10	0.10
78-59-1	Isophorone	0.27	U	10	0.27
91-20-3	Naphthalene	0.14	J	10	0.10
98-95-3	Nitrobenzene	0.040	U	10	0.040
62-75-9	N-Nitrosodimethylamine	0.31	U	1.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	0.80	U	10	0.80
86-30-6	N-Nitrosodiphenylamine	0.31	U	10	0.31
59-50-7	4-Chloro-3-methylphenol	0.80	U	10	0.80
87-86-5	Pentachlorophenol	2.4	U	10	2.4
85-01-8	Phenanthrene	0.10	U	10	0.10
108-95-2	Phenol	0.60	U	10	0.60
129-00-0	Pyrene	0.10	U	10	0.10
122-66-7	1,2-Diphenylhydrazine	0.29	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol	40		10-135
118-79-6	2,4,6-Tribromophenol	83		10-142
4165-60-0	Nitrobenzene-d5	89		44-110
4165-62-2	Phenol-d5	25		10-132
1718-51-0	Terphenyl-d14	55		24-135
321-60-8	2-Fluorobiphenyl (Surr)	74		38-110

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 161586

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2014 10:03 Calibration End Date: 12/18/2014 13:21 Calibration ID: 25844

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-161586/6	41218006.D
Level 2	STD2 240-161586/5	41218005.D
Level 3	STD3 240-161586/4	41218004.D
Level 4	STD4 240-161586/3	41218003.D
Level 5	STD5 240-161586/2	41218002.D
Level 6	STD6 240-161586/10	41218010.D
Level 7	STD7 240-161586/9	41218009.D
Level 8	STD8 240-161586/8	41218008.D
Level 9	STD9 240-161586/7	41218007.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	0.8856	0.9393 0.8880	0.9271 0.9099	0.9322 0.8701	0.8652	Ave		0.9022				3.2		35.0			
N-Nitrosodimethylamine	1.2913	1.2056 1.2639	1.1101 1.3242	1.2687 1.2965	1.2443	Ave		1.2506				5.4		35.0			
Pyridine	2.5058	2.2388 2.4164	2.3621 2.5261	2.3492 2.4566	2.2797	Ave		2.3918				4.3		35.0			
Phenol	2.6622	2.6585 2.6174	2.8288 2.6556	2.6797 2.5807	2.6479	Ave		2.6663				2.7		35.0			
Aniline	3.2208	3.2172 3.1909	3.2253 3.2508	3.1825 3.1495	3.1648	Ave		3.2002				1.1		35.0			
Bis(2-chloroethyl)ether	2.0968	2.1360 2.0467	2.0447 2.0523	2.1114 1.9981	2.0187	Ave		2.0631				2.3		35.0			
2-Chlorophenol	1.4435	1.4606 1.4008	1.4756 1.4140	1.4496 1.3854	1.4279	Ave		1.4322				2.2		35.0			
n-Decane	1.8165	1.8474 1.7192	1.9288 1.7222	1.9116 1.6693	1.8424	Ave		1.8072				5.2		35.0			
1,3-Dichlorobenzene	1.5529	1.6402 1.5114	1.5679 1.5435	1.5542 1.5009	1.5145	Ave		1.5482				2.9		35.0			
1,4-Dichlorobenzene	1.5879	1.6770 1.5469	1.6188 1.5698	1.6013 1.5478	1.5823	Ave		1.5915				2.7		35.0			
Benzyl alcohol	1.2400	1.2218 1.2151	1.2792 1.2438	1.2388 1.2035	1.2225	Ave		1.2331				1.9		35.0			
1,2-Dichlorobenzene	1.4888	1.5835 1.4643	1.5181 1.4787	1.5186 1.4469	1.4873	Ave		1.4983				2.8		35.0			
2-Methylphenol	1.7599	1.8328 1.7391	1.8501 1.7351	1.7784 1.6940	1.7404	Ave		1.7662				3.0		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 161586

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2014 10:03 Calibration End Date: 12/18/2014 13:21 Calibration ID: 25844

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								
2,2'-oxybis[1-chloropropane]	1.8188	1.9533 1.7004	1.9834 1.6570	1.9179 1.5808	1.8345	Ave		1.8058				8.1		35.0			
3 & 4 Methylphenol	1.8064	1.8150 1.7570	1.8637 1.7748	1.8618 1.7429	1.8015	Ave		1.8029				2.5		35.0			
N-Nitrosodi-n-propylamine	1.5184	1.5654 1.4286	1.6123 1.4163	1.5406 1.3882	1.5297	Ave		1.4999				5.3		35.0			
Acetophenone	2.7168	2.8937 2.6018	2.8095 2.6393	2.8063 2.5758	2.7032	Ave		2.7183				4.1		35.0			
Hexachloroethane	0.7315	0.7570 0.7201	0.7566 0.7229	0.7774 0.7013	0.7439	Ave		0.7388				3.3		35.0			
Nitrobenzene	0.6073	0.6006 0.6019	0.6187 0.5816	0.5861 0.5623	0.5867	Ave		0.5932				3.0		35.0			
Isophorone	1.0870	1.0454 1.0808	1.1230 1.0489	1.0673 1.0290	1.0615	Ave		1.0679				2.7		35.0			
2-Nitrophenol	0.1897	0.1807 0.1920	0.1926 0.1853	0.1992 0.1856	0.1832	Ave		0.1885				3.2		35.0			
2,4-Dimethylphenol	0.4663	0.5004 0.4646	0.4807 0.4375	0.4799 0.4396	0.4675	Ave		0.4671				4.5		35.0			
Benzoic acid	0.2556	0.2222 0.2621	0.1729 0.2582	0.2085 0.2553	0.2234	Ave		0.2323				14.0		35.0			
Bis(2-chloroethoxy)methane	0.6071	0.6115 0.5985	0.6044 0.5659	0.5885 0.5594	0.5884	Ave		0.5905				3.2		35.0			
2,4-Dichlorophenol	0.2958	0.2829 0.2981	0.3010 0.2925	0.2838 0.2944	0.2870	Ave		0.2919				2.3		35.0			
1,2,4-Trichlorobenzene	0.3235	0.3382 0.3322	0.3419 0.3252	0.3233 0.3218	0.3226	Ave		0.3286				2.4		35.0			
Naphthalene	1.1550 1.0515	1.0591 1.0540	1.0916 1.0426	1.0629 1.0228	1.0321	Ave		1.0635				3.7		35.0			
4-Chloroaniline	0.4572	0.4245 0.4658	0.4625 0.4501	0.4486 0.4507	0.4634	Ave		0.4528				2.9		35.0			
Hexachlorobutadiene	0.1864	0.1821 0.1894	0.1979 0.1832	0.1842 0.1828	0.1822	Ave		0.1860				2.9		35.0			
4-Chloro-3-methylphenol	0.4238	0.4076 0.4212	0.4285 0.4110	0.4166 0.4099	0.4164	Ave		0.4169				1.7		35.0			
2-Methylnaphthalene	0.6919 0.6742	0.6786 0.6864	0.7044 0.6742	0.6614 0.6701	0.6658	Ave		0.6786				2.0		35.0			
Hexachlorocyclopentadiene	0.3360	0.3092 0.3343	0.3445 0.3471	0.3300 0.3563	0.3449	Ave		0.3378				4.2		35.0			
1,2,4,5-Tetrachlorobenzene	0.5403	0.5565 0.5339	0.5378 0.5416	0.5202 0.5327	0.5205	Ave		0.5354				2.2		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 161586

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2014 10:03 Calibration End Date: 12/18/2014 13:21 Calibration ID: 25844

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								
2,4,6-Trichlorophenol	0.3559	0.3434 0.3511	0.3498 0.3584	0.3472 0.3576	0.3505	Ave		0.3517				1.5		35.0			
2,4,5-Trichlorophenol	0.3785	0.3404 0.3678	0.3756 0.3749	0.3605 0.3736	0.3783	Ave		0.3687				3.5		35.0			
1,1'-Biphenyl	1.6540 1.4779	1.4968 1.4588	1.5019 1.4662	1.4247 1.4709	1.4426	Ave		1.4882				4.5		35.0			
2-Chloronaphthalene	1.0977 1.1112	1.1254 1.0911	1.1332 1.1078	1.0802 1.0968	1.0795	Ave		1.1025				1.7		35.0			
2-Nitroaniline	0.5062	0.4816 0.4762	0.4808 0.4686	0.4961 0.4585	0.4972	Ave		0.4832				3.3		35.0			
Dimethyl phthalate	1.2453	1.2812 1.1720	1.3253 1.1802	1.2464 1.1839	1.2550	Ave		1.2361				4.4		35.0			
2,6-Dinitrotoluene	0.2932	0.2683 0.2805	0.3023 0.2845	0.2910 0.2796	0.2896	Ave		0.2861				3.6		35.0			
Acenaphthylene	1.7603 1.7583	1.6711 1.7187	1.7619 1.7820	1.6876 1.7658	1.7177	Ave		1.7359				2.2		35.0			
3-Nitroaniline	0.3017	0.2930 0.3027	0.3207 0.3110	0.3078 0.3092	0.3072	Ave		0.3067				2.6		35.0			
2,4-Dinitrophenol	0.1513	0.0778 0.1681	0.1061 0.1811	0.1342 0.1871	0.1595	Ave		0.1456				26.0		35.0			
Acenaphthene	1.2291 1.1235	1.1492 1.1020	1.1535 1.1038	1.1343 1.0913	1.0962	Ave		1.1314				3.8		35.0			
4-Nitrophenol	0.2536	0.2215 0.2470	0.2270 0.2474	0.2341 0.2503	0.2381	Ave		0.2399				4.8		35.0			
2,4-Dinitrotoluene	0.3705	0.3380 0.3698	0.3777 0.3818	0.3651 0.3802	0.3605	Ave		0.3679				3.9		35.0			
Dibenzofuran	1.6561 1.5785	1.6510 1.5513	1.6007 1.5813	1.5472 1.5933	1.5322	Ave		1.5879				2.7		35.0			
Diethyl phthalate	1.0894	1.2812 1.0888	1.2967 1.1198	1.2115 1.1220	1.1375	Ave		1.1683				7.2		35.0			
4-Chlorophenyl phenyl ether	0.6266	0.6102 0.6151	0.6472 0.6126	0.6312 0.5992	0.6162	Ave		0.6198				2.4		35.0			
4-Nitroaniline	0.3143	0.3164 0.3037	0.3406 0.3054	0.2932 0.3074	0.2996	Ave		0.3101				4.6		35.0			
Fluorene	1.4533 1.3128	1.2877 1.2600	1.3644 1.2724	1.3172 1.2455	1.2935	Ave		1.3118				4.8		35.0			
4,6-Dinitro-2-methylphenol	0.1410	0.0806 0.1438	0.1051 0.1472	0.1125 0.1512	0.1400	Ave		0.1277				20.0		35.0			
N-Nitrosodiphenylamine	0.5459	0.5548 0.5280	0.5497 0.5402	0.5319 0.5555	0.5855	Ave		0.5489				3.2		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 161586

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2014 10:03 Calibration End Date: 12/18/2014 13:21 Calibration ID: 25844

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-Diphenylhydrazine	1.3371	1.2203 1.1976	1.2303 1.1396	1.2202 1.1135	1.3338	Ave		1.2235				6.5		35.0			
Azobenzene	1.3373	1.2199 1.1976	1.2268 1.1395	1.2198 1.1137	1.3332	Ave		1.2235				6.5		35.0			
4-Bromophenyl phenyl ether	0.2032	0.1968 0.1869	0.1977 0.1899	0.1914 0.1925	0.2091	Ave		0.1959				3.8		35.0			
Hexachlorobenzene	0.2269 0.2134	0.2185 0.1977	0.2082 0.1984	0.1985 0.2001	0.2144	Ave		0.2085				5.1		35.0			
n-Octadecane	0.4923	0.5264 0.4166	0.5498 0.3679	0.5313 0.3466	0.5590	Ave		0.4738				18.0		35.0			
Pentachlorophenol	0.1557	0.1238 0.1562	0.1303 0.1588	0.1345 0.1577	0.1461	Ave		0.1454				9.6		35.0			
Phenanthrene	1.2186 1.1450	1.1616 1.1312	1.1227 1.1310	1.0996 1.1408	1.1080	Ave		1.1398				3.1		35.0			
Anthracene	1.2076 1.2038	1.1407 1.1748	1.1851 1.1857	1.1239 1.1927	1.1429	Ave		1.1730				2.6		35.0			
Carbazole	0.9891	0.9970 0.9530	0.9399 0.9748	0.8000 0.9824	0.8471	Ave		0.9354				7.8		35.0			
Di-n-butyl phthalate	1.3015	1.1085 1.2549	1.0697 1.2517	1.1121 1.2666	1.3022	Ave		1.2084				7.9		35.0			
Fluoranthene	1.2209 1.3111	1.1430 1.2749	1.1144 1.3099	1.0990 1.3495	1.2615	Ave		1.2316				7.5		35.0			
Benzidine	0.4448	+++++ 0.5221	0.2464 0.5715	0.2320 0.5654	0.3036	Qua	-1.085	0.4727	0.0025344						0.9960		0.9900
Pyrene	1.1830 1.1706	1.0966 1.1889	1.0814 1.2462	1.1203 1.2498	1.1543	Ave		1.1657				5.1		35.0			
Butyl benzyl phthalate	0.5323	0.4981 0.5352	0.5197 0.5326	0.5375 0.5317	0.5226	Ave		0.5262				2.4		35.0			
Bis(2-ethylhexyl) phthalate	0.7168	0.6882 0.7122	0.7099 0.7205	0.7242 0.7277	0.7522	Ave		0.7190				2.5		35.0			
3,3'-Dichlorobenzidine	0.3412	0.3019 0.3595	0.3329 0.3910	0.3288 0.4038	0.2925	Ave		0.3440				11.0		35.0			
Benzo[a]anthracene	1.2243 1.1116	1.0903 1.1238	1.0925 1.1439	1.0647 1.1464	1.0629	Ave		1.1178				4.5		35.0			
Chrysene	1.1919 1.0685	1.0688 1.0740	1.0746 1.0683	1.0733 1.0860	1.0369	Ave		1.0825				4.0		35.0			
Di-n-octyl phthalate	1.4230	1.2280 1.4562	1.3659 1.4465	1.4656 1.4864	1.5130	Ave		1.4231				6.3		35.0			
Benzo[b]fluoranthene	1.2040 1.1542	1.0674 1.1774	1.0967 1.1846	1.1665 1.1898	1.1491	Ave		1.1544				3.9		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 161586

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2014 10:03 Calibration End Date: 12/18/2014 13:21 Calibration ID: 25844

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								
Benzo[k]fluoranthene	1.2528 1.2842	1.0972 1.2655	1.2427 1.2515	1.1886 1.2670	1.1826	Ave		1.2258				4.8		35.0			
Benzo[a]pyrene	1.1110 1.1496	0.9764 1.1550	1.0743 1.1512	1.0963 1.1586	1.1083	Ave		1.1089				5.2		35.0			
Indeno[1,2,3-cd]pyrene	1.1431 1.2295	1.1187 1.2435	1.1287 1.2210	1.1148 1.2406	1.2194	Ave		1.1844				4.7		35.0			
Dibenz(a,h)anthracene	0.8910 1.0353	0.9089 1.0567	0.9012 1.0484	0.9678 1.0731	1.0622	Ave		0.9938				7.7		35.0			
Benzo[g,h,i]perylene	0.9635 1.0484	0.9337 1.0459	0.9905 1.0334	1.0047 1.0364	1.0584	Ave		1.0128				4.2		35.0			
2-Fluorophenol	 1.6513	1.7628 1.6211	1.7017 1.6785	1.6764 1.6397	1.6433	Ave		1.6718				2.7		35.0			
Phenol-d5	 2.2055	2.2446 2.1589	2.2673 2.2020	2.2918 2.1643	2.2220	Ave		2.2195				2.1		35.0			
Nitrobenzene-d5	0.5952 0.5731	0.5728 0.5760	0.5848 0.5582	0.5725 0.5493	0.5557	Ave		0.5708				2.5		35.0			
2-Fluorobiphenyl (Surr)	1.6198 1.2301	1.2766 1.2018	1.2363 1.2155	1.1923 1.2241	1.1775	Ave		1.2638				11.0		35.0			
2,4,6-Tribromophenol	 0.1381	0.1397 0.1431	0.1490 0.1508	0.1472 0.1538	0.1517	Ave		0.1467				3.9		35.0			
Terphenyl-d14	0.9980 0.6544	0.6899 0.6551	0.6704 0.6785	0.6409 0.6795	0.6262	Ave		0.6992				16.0		35.0			

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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 161586

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2014 10:03 Calibration End Date: 12/18/2014 13:21 Calibration ID: 25844

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-161586/6	41218006.D
Level 2	STD2 240-161586/5	41218005.D
Level 3	STD3 240-161586/4	41218004.D
Level 4	STD4 240-161586/3	41218003.D
Level 5	STD5 240-161586/2	41218002.D
Level 6	STD6 240-161586/10	41218010.D
Level 7	STD7 240-161586/9	41218009.D
Level 8	STD8 240-161586/8	41218008.D
Level 9	STD9 240-161586/7	41218007.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCB	Ave	322751	15297 506330	31086 737533	57943 814022	134244	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodimethylamine	DCB	Ave	470609	19634 720694	37223 1073342	78862 1212999	193062	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pyridine	DCB	Ave	913204	36460 1377823	79207 2047531	146021 2298294	353722	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Phenol	DCB	Ave	970201	43294 1492404	94856 2152560	166567 2414449	410845	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Aniline	DCB	Ave	1173773	52393 1819448	108152 2635011	197824 2946618	491043	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-chloroethyl)ether	DCB	Ave	764138	34785 1167039	68564 1663491	131243 1869363	313218	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chlorophenol	DCB	Ave	526059	23786 798756	49480 1146101	90106 1296151	221548	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
n-Decane	DCB	Ave	662005	30086 980292	64678 1395965	118824 1561783	285864	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,3-Dichlorobenzene	DCB	Ave	565939	26711 861789	52574 1251113	96610 1404161	234995	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,4-Dichlorobenzene	DCB	Ave	578697	27311 882062	54282 1272388	99534 1448090	245513	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzyl alcohol	DCB	Ave	451902	19898 692867	42894 1008172	77003 1125967	189690	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2-Dichlorobenzene	DCB	Ave	542565	25788 834950	50906 1198554	94392 1353725	230777	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylphenol	DCB	Ave	641361	29848 991651	62039 1406422	110542 1584875	270042	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,2'-oxybis[1-chloropropane]	DCB	Ave	662839	31810 969538	66508 1343142	119214 1478987	284639	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 161586

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2014 10:03 Calibration End Date: 12/18/2014 13:21 Calibration ID: 25844

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
3 & 4 Methylphenol	DCB	Ave	658307	29557 1001851	62495 1438589	115730 1630610	279521	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
N-Nitrosodi-n-propylamine	DCB	Ave	553368	25493 814607	54064 1148025	95760 1298802	237342	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acetophenone	DCB	Ave	990117	47124 1483545	94208 2139312	174435 2409822	419424	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachloroethane	DCB	Ave	266571	12328 410574	25369 585954	48322 656126	115427	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene	NPT	Ave	875406	39758 1309154	82493 1884613	148823 2094749	363768	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Isophorone	NPT	Ave	1566786	69198 2351006	149729 3398852	271005 3833022	658155	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitrophenol	NPT	Ave	273505	11962 417546	25681 600289	50584 691544	113602	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dimethylphenol	NPT	Ave	672085	33127 1010538	64100 1417565	121853 1637473	289836	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzoic acid	NPT	Ave	736878	29421 1140377	46106 1673575	105871 1901842	277053	20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	875141	40480 1301908	80584 1833874	149424 2083680	364789	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dichlorophenol	NPT	Ave	426347	18726 648471	40140 947744	72063 1096775	177920	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4-Trichlorobenzene	NPT	Ave	466328	22386 722562	45582 1053856	82103 1198883	200025	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Naphthalene	NPT	Ave	22689 1515607	70106 2292645	145554 3378550	269888 3810020	639936	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloroaniline	NPT	Ave	658969	28097 1013175	61663 1458619	113910 1678862	287319	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorobutadiene	NPT	Ave	268693	12053 412087	26389 593637	46764 681108	112991	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chloro-3-methylphenol	NPT	Ave	610819	26979 916258	57128 1331877	105772 1526788	258190	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Methylnaphthalene	NPT	Ave	13592 971819	44921 1492960	93927 2184636	167935 2496286	412833	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Hexachlorocyclopentadiene	ANT	Ave	284059	11786 437209	27101 661441	49528 787708	125732	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
1,2,4,5-Tetrachlorobenzene	ANT	Ave	456752	21215 698324	42307 1032079	78065 1177736	189742	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Trichlorophenol	ANT	Ave	300890	13091 459199	27518 683040	52101 790478	127787	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,5-Trichlorophenol	ANT	Ave	319996	12976 481088	29548 714460	54099 825813	137912	10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 161586

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2014 10:03 Calibration End Date: 12/18/2014 13:21 Calibration ID: 25844

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,1'-Biphenyl	ANT	Ave	19101 1249352	57063 1908028	118150 2794067	213809 3251614	525888	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Chloronaphthalene	ANT	Ave	12676 939348	42903 1427188	89141 2111188	162106 2424607	393498	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Nitroaniline	ANT	Ave	 427920	18361 622829	37824 893021	74447 1013622	181260	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dimethyl phthalate	ANT	Ave	 1052715	48842 1532933	104257 2249035	187050 2617240	457478	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,6-Dinitrotoluene	ANT	Ave	 247862	10228 366833	23781 542205	43670 618073	105568	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Acenaphthylene	ANT	Ave	20328 1486348	63707 2248032	138597 3396001	253275 3903698	626169	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3-Nitroaniline	ANT	Ave	 255063	11170 395949	25230 592630	46191 683437	111980	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4-Dinitrophenol	ANT	Ave	 255724	5934 439617	16696 690257	40274 827284	116278	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Acenaphthene	ANT	Ave	14194 949723	43811 1441331	90738 2103575	170231 2412604	399614	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitrophenol	ANT	Ave	 428709	16888 646147	35715 942884	70276 1106775	173598	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
2,4-Dinitrotoluene	ANT	Ave	 313205	12885 483674	29712 727645	54791 840447	131417	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenzofuran	ANT	Ave	19125 1334332	62941 2029035	125920 3013464	232196 3522367	558535	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Diethyl phthalate	ANT	Ave	 920882	48844 1424097	102003 2133907	181816 2480420	414667	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Chlorophenyl phenyl ether	ANT	Ave	 529654	23264 804488	50909 1167479	94728 1324618	224643	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Nitroaniline	ANT	Ave	 265654	12062 397168	26792 582072	44000 679537	109228	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluorene	ANT	Ave	16783 1109726	49093 1647989	107328 2424770	197678 2753348	471515	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4,6-Dinitro-2-methylphenol	PHN	Ave	 365048	10509 592417	28491 906045	56280 1081284	155380	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
N-Nitrosodiphenylamine	PHN	Ave	 1412859	72348 2175818	149007 3325181	266089 3973188	649608	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
1,2-Diphenylhydrazine	PHN	Ave	 1730433	79571 2467376	166737 3507475	305218 3981877	739954	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Azobenzene	PHN	Ave	 1730626	79542 2467376	166263 3507365	305104 3982732	739665	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
4-Bromophenyl phenyl ether	PHN	Ave	 262971	12830 385044	26797 584335	47867 688420	115997	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 161586

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2014 10:03 Calibration End Date: 12/18/2014 13:21 Calibration ID: 25844

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Hexachlorobenzene	PHN	Ave	4464 276128	14250 407236	28218 610679	49660 715509	118973	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
n-Octadecane	PHN	Ave	 637130	34324 858276	74517 1132393	132889 1239507	310143	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Pentachlorophenol	PHN	Ave	 402885	16147 643743	35309 977571	67273 1127632	162112	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Phenanthrene	PHN	Ave	23978 1481767	75744 2330613	152151 3480952	275045 4079434	614719	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Anthracene	PHN	Ave	23762 1557843	74377 2420406	160606 3649333	281109 4265095	634049	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Carbazole	PHN	Ave	 1279994	65012 1963488	127378 3000301	200098 3513061	469973	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-butyl phthalate	PHN	Ave	 1684371	72278 2585418	144971 3852497	278167 4529296	722421	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Fluoranthene	PHN	Ave	24023 1696688	74530 2626687	151030 4031565	274892 4825819	699851	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzidine	CRY	Qua	 1342554	+++++ 2414693	69933 3846034	118174 4482876	388884	 20.0	+++++ 30.0	2.00 40.0	4.00 50.0	10.0
Pyrene	CRY	Ave	23899 1766777	75075 2749360	153463 4193524	285360 4954796	739267	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Butyl benzyl phthalate	CRY	Ave	 803455	34101 1237608	73749 1792139	136913 2107927	334698	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Bis(2-ethylhexyl) phthalate	CRY	Ave	 1081958	47117 1647035	100733 2424563	184456 2884942	481749	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
3,3'-Dichlorobenzidine	CRY	Ave	 1029920	41343 1662934	94493 2631193	167521 3201930	374619	 20.0	1.00 30.0	2.00 40.0	4.00 50.0	10.0
Benzo[a]anthracene	CRY	Ave	24733 1677795	74645 2598874	155035 3849317	271189 4544941	680714	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Chrysene	CRY	Ave	24079 1612700	73171 2483649	152488 3594857	273385 4305543	664035	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Di-n-octyl phthalate	PRY	Ave	 1821864	71432 2894288	168050 4378744	321382 5287343	813700	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[b]fluoranthene	PRY	Ave	21476 1477732	62088 2340158	134923 3585942	255786 4232210	617975	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[k]fluoranthene	PRY	Ave	22346 1644131	63824 2515338	152889 3788513	260629 4506944	636026	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Benzo[a]pyrene	PRY	Ave	19816 1471809	56794 2295682	132163 3484851	240389 4121125	596031	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Indeno[1,2,3-cd]pyrene	PRY	Ave	20390 1574096	65072 2471606	138863 3696241	244458 4413063	655822	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Dibenz(a,h)anthracene	PRY	Ave	15892 1325446	52867 2100350	110878 3173782	212213 3816972	571271	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

FORM VI

GC/MS SEMI VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 161586

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/18/2014 10:03 Calibration End Date: 12/18/2014 13:21 Calibration ID: 25844

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Benzo[g,h,i]perylene	PRY	Ave	17185 1342260	54309 2078853	121857 3128176	220308 3686517	569243	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorophenol	DCB	Ave	 601793	28708 924366	57061 1360505	104202 1534017	254979	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Phenol-d5	DCB	Ave	 803749	36554 1230984	76026 1784841	142456 2024832	344763	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Nitrobenzene-d5	NPT	Ave	11692 826141	37917 1252932	77972 1808837	145359 2046093	344526	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2-Fluorobiphenyl (Surr)	ANT	Ave	18705 1039844	48667 1571913	97258 2316410	178943 2706033	429253	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
2,4,6-Tribromophenol	ANT	Ave	 116746	5326 187226	11724 287460	22090 340018	55287	 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00
Terphenyl-d14	CRY	Ave	20162 987681	47234 1514880	95135 2283087	163253 2693846	401028	0.100 10.0	0.500 15.0	1.00 20.0	2.00 25.0	5.00

Curve Type Legend:

Ave = Average ISTD
Qua = Quadratic ISTD

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID (1): CCV 240-163142/2 CCVIS Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 01/05/2015 07:53

ANALYTE	RT	RESOLUTION (%)
N-Nitrosodimethylamine	2.86	100.0
2-Fluorophenol	4.84	100.0
Phenol-d5	5.76	100.0
Phenol	5.77	100.0
Bis(2-chloroethyl)ether	5.87	100.0
2-Chlorophenol	5.93	100.0
2,2'-oxybis[1-chloropropane]	6.35	100.0
N-Nitrosodi-n-propylamine	6.46	100.0
Hexachloroethane	6.58	100.0
Nitrobenzene-d5	6.61	100.0
Nitrobenzene	6.63	100.0
Isophorone	6.83	100.0
2-Nitrophenol	6.91	100.0
2,4-Dimethylphenol	6.92	100.0
Bis(2-chloroethoxy)methane	7.00	100.0
2,4-Dichlorophenol	7.11	100.0
1,2,4-Trichlorobenzene	7.19	100.0
Naphthalene	7.26	100.0
Hexachlorobutadiene	7.35	100.0
4-Chloro-3-methylphenol	7.69	100.0
Hexachlorocyclopentadiene	7.98	100.0
2,4,6-Trichlorophenol	8.08	100.0
2-Fluorobiphenyl (Surr)	8.15	100.0
2-Chloronaphthalene	8.27	100.0
Dimethyl phthalate	8.47	100.0
2,6-Dinitrotoluene	8.53	100.0
Acenaphthylene	8.62	100.0
Acenaphthene	8.77	100.0
4-Nitrophenol	8.80	100.0
2,4-Dinitrotoluene	8.87	100.0
Diethyl phthalate	9.06	100.0
4-Chlorophenyl phenyl ether	9.18	100.0
Fluorene	9.21	100.0
4,6-Dinitro-2-methylphenol	9.22	100.0
N-Nitrosodiphenylamine	9.28	100.0
1,2-Diphenylhydrazine	9.32	100.0
2,4,6-Tribromophenol	9.41	100.0
4-Bromophenyl phenyl ether	9.60	100.0
Hexachlorobenzene	9.67	100.0
Pentachlorophenol	9.83	100.0
Phenanthrene	10.02	100.0
Anthracene	10.07	100.0
Di-n-butyl phthalate	10.43	100.0
Fluoranthene	11.03	100.0
Benzidine	11.11	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID (1): CCV 240-163142/2 CCVIS Instrument ID (1): A4HP9

GC Column (1): RXI-5SILMS ID: 0.45(mm) Date Analyzed (1): 01/05/2015 07:53

ANALYTE	RT	RESOLUTION (%)
Pyrene	11.23	100.0
Terphenyl-d14	11.32	100.0
Butyl benzyl phthalate	11.70	100.0
Bis(2-ethylhexyl) phthalate	12.15	100.0
3,3'-Dichlorobenzidine	12.18	100.0
Benzo[a]anthracene	12.23	100.0
Chrysene	12.27	100.0
Di-n-octyl phthalate	12.76	100.0
Benzo[b]fluoranthene	13.35	30.60
Benzo[k]fluoranthene	13.38	100.0
Benzo[a]pyrene	13.78	100.0
Indeno[1,2,3-cd]pyrene	15.60	100.0
Dibenz(a,h)anthracene	15.61	100.0
Benzo[g,h,i]perylene	16.14	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: ICV 240-161586/11 Calibration Date: 12/18/2014 13:46

Instrument ID: A4HP9 Calib Start Date: 12/18/2014 10:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 12/18/2014 13:21

Lab File ID: 41218011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.9022	0.8267		9.16	10.0	-8.4	20.0
N-Nitrosodimethylamine	Ave	1.251	1.231		9.84	10.0	-1.6	20.0
Pyridine	Ave	2.392	2.281		9.54	10.0	-4.6	20.0
Phenol	Ave	2.666	2.534		9.50	10.0	-5.0	20.0
Aniline	Ave	3.200	3.076		9.61	10.0	-3.9	20.0
Bis(2-chloroethyl)ether	Ave	2.063	2.032		9.85	10.0	-1.5	20.0
2-Chlorophenol	Ave	1.432	1.364		9.52	10.0	-4.8	20.0
n-Decane	Ave	1.807	1.774		9.82	10.0	-1.8	20.0
1,3-Dichlorobenzene	Ave	1.548	1.494		9.65	10.0	-3.5	20.0
1,4-Dichlorobenzene	Ave	1.591	1.504		9.45	10.0	-5.5	20.0
Benzyl alcohol	Ave	1.233	1.204		9.76	10.0	-2.4	20.0
1,2-Dichlorobenzene	Ave	1.498	1.413		9.43	10.0	-5.7	20.0
2-Methylphenol	Ave	1.766	1.648		9.33	10.0	-6.7	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.806	1.750		9.69	10.0	-3.1	20.0
3 & 4 Methylphenol	Ave	1.803	1.747		9.69	10.0	-3.1	20.0
N-Nitrosodi-n-propylamine	Ave	1.500	1.467		9.78	10.0	-2.2	20.0
Acetophenone	Ave	2.718	2.607		9.59	10.0	-4.1	20.0
Hexachloroethane	Ave	0.7388	0.6866		9.29	10.0	-7.1	20.0
Nitrobenzene	Ave	0.5932	0.5862		9.88	10.0	-1.2	20.0
Isophorone	Ave	1.068	1.042		9.76	10.0	-2.4	20.0
2,4-Dimethylphenol	Ave	0.4671	0.4554		9.75	10.0	-2.5	20.0
2-Nitrophenol	Ave	0.1885	0.1811		9.60	10.0	-4.0	20.0
Benzoic acid	Ave	0.2323	0.2347		20.2	20.0	1.1	20.0
Bis(2-chloroethoxy)methane	Ave	0.5905	0.5855		9.92	10.0	-0.8	20.0
2,4-Dichlorophenol	Ave	0.2919	0.2899		9.93	10.0	-0.7	20.0
1,2,4-Trichlorobenzene	Ave	0.3286	0.3162		9.62	10.0	-3.8	20.0
Naphthalene	Ave	1.064	1.004		9.44	10.0	-5.6	20.0
4-Chloroaniline	Ave	0.4528	0.4562		10.1	10.0	0.8	20.0
Hexachlorobutadiene	Ave	0.1860	0.1789		9.62	10.0	-3.8	20.0
4-Chloro-3-methylphenol	Ave	0.4169	0.4132		9.91	10.0	-0.9	20.0
2-Methylnaphthalene	Ave	0.6786	0.6727		9.91	10.0	-0.9	20.0
Hexachlorocyclopentadiene	Ave	0.3378	0.3163		9.36	10.0	-6.4	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5354	0.5096		9.52	10.0	-4.8	20.0
2,4,6-Trichlorophenol	Ave	0.3517	0.3386		9.63	10.0	-3.7	20.0
2,4,5-Trichlorophenol	Ave	0.3687	0.3515		9.53	10.0	-4.7	20.0
1,1'-Biphenyl	Ave	1.488	1.439		9.67	10.0	-3.3	20.0
2-Chloronaphthalene	Ave	1.103	1.068		9.68	10.0	-3.2	20.0
2-Nitroaniline	Ave	0.4832	0.4850		10.0	10.0	0.4	20.0
Dimethyl phthalate	Ave	1.236	1.195		9.67	10.0	-3.3	20.0
2,6-Dinitrotoluene	Ave	0.2861	0.2832		9.90	10.0	-1.0	20.0
Acenaphthylene	Ave	1.736	1.689		9.73	10.0	-2.7	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: ICV 240-161586/11 Calibration Date: 12/18/2014 13:46

Instrument ID: A4HP9 Calib Start Date: 12/18/2014 10:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 12/18/2014 13:21

Lab File ID: 41218011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Ave	0.3067	0.3014		9.83	10.0	-1.7	20.0
2,4-Dinitrophenol	Ave	0.1456	0.1488		20.4	20.0	2.1	20.0
Acenaphthene	Ave	1.131	1.067		9.43	10.0	-5.7	20.0
4-Nitrophenol	Ave	0.2399	0.2440		20.3	20.0	1.7	20.0
2,4-Dinitrotoluene	Ave	0.3679	0.3586		9.75	10.0	-2.5	20.0
Dibenzofuran	Ave	1.588	1.529		9.63	10.0	-3.7	20.0
Diethyl phthalate	Ave	1.168	1.060		9.07	10.0	-9.3	20.0
4-Chlorophenyl phenyl ether	Ave	0.6198	0.6100		9.84	10.0	-1.6	20.0
4-Nitroaniline	Ave	0.3101	0.3105		10.0	10.0	0.1	20.0
Fluorene	Ave	1.312	1.218		9.29	10.0	-7.1	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1277	0.1370		21.5	20.0	7.3	20.0
N-Nitrosodiphenylamine	Ave	0.5489	0.5324		19.4	20.0	-3.0	20.0
1,2-Diphenylhydrazine	Ave	1.223	1.284		10.5	10.0	5.0	20.0
4-Bromophenyl phenyl ether	Ave	0.1959	0.1970		10.1	10.0	0.6	20.0
Hexachlorobenzene	Ave	0.2085	0.2082		9.99	10.0	-0.1	20.0
n-Octadecane	Ave	0.4738	0.4801		10.1	10.0	1.3	20.0
Pentachlorophenol	Ave	0.1454	0.1548		21.3	20.0	6.5	20.0
Phenanthrene	Ave	1.140	1.098		9.63	10.0	-3.7	20.0
Anthracene	Ave	1.173	1.152		9.82	10.0	-1.8	20.0
Carbazole	Ave	0.9354	0.9821		10.5	10.0	5.0	20.0
Di-n-butyl phthalate	Ave	1.208	1.256		10.4	10.0	3.9	20.0
Fluoranthene	Ave	1.232	1.290		10.5	10.0	4.8	20.0
Benzidine	Qua		0.4265		18.5	20.0	-7.5	20.0
Pyrene	Ave	1.166	1.144		9.81	10.0	-1.9	20.0
Butyl benzyl phthalate	Ave	0.5262	0.5094		9.68	10.0	-3.2	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7190	0.6885		9.58	10.0	-4.2	20.0
3,3'-Dichlorobenzidine	Ave	0.3440	0.3369		19.6	20.0	-2.1	20.0
Benzo[a]anthracene	Ave	1.118	1.046		9.35	10.0	-6.5	20.0
Chrysene	Ave	1.082	1.039		9.60	10.0	-4.0	20.0
Di-n-octyl phthalate	Ave	1.423	1.391		9.78	10.0	-2.2	20.0
Benzo[b]fluoranthene	Ave	1.154	1.149		9.96	10.0	-0.4	20.0
Benzo[k]fluoranthene	Ave	1.226	1.291		10.5	10.0	5.3	20.0
Benzo[a]pyrene	Ave	1.109	1.151		10.4	10.0	3.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.184	1.255		10.6	10.0	5.9	20.0
Dibenz(a,h)anthracene	Ave	0.9938	1.028		10.3	10.0	3.4	20.0
Benzo[g,h,i]perylene	Ave	1.013	1.035		10.2	10.0	2.2	20.0
2-Fluorophenol	Ave	1.672	1.712		10.2	10.0	2.4	20.0
Phenol-d5	Ave	2.220	2.282		10.3	10.0	2.8	20.0
Nitrobenzene-d5	Ave	0.5708	0.5928		10.4	10.0	3.9	20.0
2-Fluorobiphenyl (Surr)	Ave	1.264	1.266		10.0	10.0	0.2	20.0
2,4,6-Tribromophenol	Ave	0.1467	0.1485		10.1	10.0	1.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: ICV 240-161586/11 Calibration Date: 12/18/2014 13:46

Instrument ID: A4HP9 Calib Start Date: 12/18/2014 10:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 12/18/2014 13:21

Lab File ID: 41218011.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Terphenyl-d14	Ave	0.6992	0.7572		10.8	10.0	8.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163142/2 Calibration Date: 01/05/2015 07:53

Instrument ID: A4HP9 Calib Start Date: 12/18/2014 10:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 12/18/2014 13:21

Lab File ID: 50105002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.9022	0.9466		10.5	10.0	4.9	20.0
N-Nitrosodimethylamine	Ave	1.251	1.415		11.3	10.0	13.2	20.0
Pyridine	Ave	2.392	2.639		11.0	10.0	10.4	20.0
Phenol	Ave	2.666	2.765		10.4	10.0	3.7	20.0
Aniline	Ave	3.200	3.385		10.6	10.0	5.8	20.0
Bis(2-chloroethyl)ether	Ave	2.063	2.174		10.5	10.0	5.4	20.0
2-Chlorophenol	Ave	1.432	1.430		9.99	10.0	-0.1	20.0
n-Decane	Ave	1.807	2.031		11.2	10.0	12.4	20.0
1,3-Dichlorobenzene	Ave	1.548	1.562		10.1	10.0	0.9	20.0
1,4-Dichlorobenzene	Ave	1.591	1.603		10.1	10.0	0.7	20.0
Benzyl alcohol	Ave	1.233	1.277		10.4	10.0	3.6	20.0
1,2-Dichlorobenzene	Ave	1.498	1.524		10.2	10.0	1.7	20.0
2-Methylphenol	Ave	1.766	1.837		10.4	10.0	4.0	20.0
2,2'-oxybis[1-chloropropane]	Ave	1.806	1.990		11.0	10.0	10.2	20.0
3 & 4 Methylphenol	Ave	1.803	1.889		10.5	10.0	4.8	20.0
N-Nitrosodi-n-propylamine	Ave	1.500	1.682		11.2	10.0	12.1	20.0
Acetophenone	Ave	2.718	2.908		10.7	10.0	7.0	20.0
Hexachloroethane	Ave	0.7388	0.7882		10.7	10.0	6.7	20.0
Nitrobenzene	Ave	0.5932	0.6908		11.6	10.0	16.5	20.0
Isophorone	Ave	1.068	1.182		11.1	10.0	10.7	20.0
2-Nitrophenol	Ave	0.1885	0.1903		10.1	10.0	1.0	20.0
2,4-Dimethylphenol	Ave	0.4671	0.5113		10.9	10.0	9.5	20.0
Benzoic acid	Ave	0.2323	0.2161		18.6	20.0	-7.0	20.0
Bis(2-chloroethoxy)methane	Ave	0.5905	0.6363		10.8	10.0	7.8	20.0
2,4-Dichlorophenol	Ave	0.2919	0.2997		10.3	10.0	2.7	20.0
1,2,4-Trichlorobenzene	Ave	0.3286	0.3313		10.1	10.0	0.8	20.0
Naphthalene	Ave	1.064	1.080		10.2	10.0	1.6	20.0
4-Chloroaniline	Ave	0.4528	0.4560		10.1	10.0	0.7	20.0
Hexachlorobutadiene	Ave	0.1860	0.1939		10.4	10.0	4.2	20.0
4-Chloro-3-methylphenol	Ave	0.4169	0.4411		10.6	10.0	5.8	20.0
2-Methylnaphthalene	Ave	0.6786	0.6905		10.2	10.0	1.8	20.0
Hexachlorocyclopentadiene	Ave	0.3378	0.3666		10.9	10.0	8.5	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5354	0.5651		10.6	10.0	5.5	20.0
2,4,6-Trichlorophenol	Ave	0.3517	0.3703		10.5	10.0	5.3	20.0
2,4,5-Trichlorophenol	Ave	0.3687	0.3846		10.4	10.0	4.3	20.0
1,1'-Biphenyl	Ave	1.488	1.515		10.2	10.0	1.8	20.0
2-Chloronaphthalene	Ave	1.103	1.155		10.5	10.0	4.8	20.0
2-Nitroaniline	Ave	0.4832	0.5909		12.2	10.0	22.3*	20.0
Dimethyl phthalate	Ave	1.236	1.324		10.7	10.0	7.1	20.0
2,6-Dinitrotoluene	Ave	0.2861	0.3186		11.1	10.0	11.4	20.0
Acenaphthylene	Ave	1.736	1.809		10.4	10.0	4.2	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163142/2 Calibration Date: 01/05/2015 07:53

Instrument ID: A4HP9 Calib Start Date: 12/18/2014 10:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 12/18/2014 13:21

Lab File ID: 50105002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
3-Nitroaniline	Ave	0.3067	0.3235		10.5	10.0	5.5	20.0
2,4-Dinitrophenol	Ave	0.1456	0.1902		26.1	20.0	30.6*	20.0
Acenaphthene	Ave	1.131	1.159		10.2	10.0	2.4	20.0
4-Nitrophenol	Ave	0.2399	0.3102		25.9	20.0	29.3*	20.0
2,4-Dinitrotoluene	Ave	0.3679	0.4100		11.1	10.0	11.4	20.0
Dibenzofuran	Ave	1.588	1.582		9.96	10.0	-0.4	20.0
Diethyl phthalate	Ave	1.168	1.236		10.6	10.0	5.8	20.0
4-Chlorophenyl phenyl ether	Ave	0.6198	0.6231		10.1	10.0	0.5	20.0
4-Nitroaniline	Ave	0.3101	0.3387		10.9	10.0	9.2	20.0
Fluorene	Ave	1.312	1.319		10.1	10.0	0.5	20.0
4,6-Dinitro-2-methylphenol	Ave	0.1277	0.1511		23.7	20.0	18.3	20.0
N-Nitrosodiphenylamine	Ave	0.5489	0.5408		19.7	20.0	-1.5	20.0
1,2-Diphenylhydrazine	Ave	1.223	1.367		11.2	10.0	11.8	20.0
4-Bromophenyl phenyl ether	Ave	0.1959	0.1961		10.0	10.0	0.0	20.0
Hexachlorobenzene	Ave	0.2085	0.2045		9.81	10.0	-1.9	20.0
n-Octadecane	Ave	0.4738	0.5679		12.0	10.0	19.9	20.0
Pentachlorophenol	Ave	0.1454	0.1473		20.3	20.0	1.4	20.0
Phenanthrene	Ave	1.140	1.126		9.88	10.0	-1.2	20.0
Anthracene	Ave	1.173	1.173		10.0	10.0	0.0	20.0
Carbazole	Ave	0.9354	1.013		10.8	10.0	8.3	20.0
Di-n-butyl phthalate	Ave	1.208	1.305		10.8	10.0	8.0	20.0
Fluoranthene	Ave	1.232	1.243		10.1	10.0	0.9	20.0
Benzidine	Qua		0.4697		20.0	20.0	0.1	20.0
Pyrene	Ave	1.166	1.229		10.5	10.0	5.5	20.0
Butyl benzyl phthalate	Ave	0.5262	0.5518		10.5	10.0	4.9	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.7190	0.7506		10.4	10.0	4.4	20.0
3,3'-Dichlorobenzidine	Ave	0.3440	0.3765		21.9	20.0	9.5	20.0
Benzo[a]anthracene	Ave	1.118	1.137		10.2	10.0	1.8	20.0
Chrysene	Ave	1.082	1.074		9.92	10.0	-0.8	20.0
Di-n-octyl phthalate	Ave	1.423	1.577		11.1	10.0	10.8	20.0
Benzo[b]fluoranthene	Ave	1.154	1.250		10.8	10.0	8.3	20.0
Benzo[k]fluoranthene	Ave	1.226	1.279		10.4	10.0	4.3	20.0
Benzo[a]pyrene	Ave	1.109	1.172		10.6	10.0	5.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.184	1.286		10.9	10.0	8.6	20.0
Dibenz(a,h)anthracene	Ave	0.9938	1.089		11.0	10.0	9.6	20.0
Benzo[g,h,i]perylene	Ave	1.013	1.111		11.0	10.0	9.7	20.0
2-Fluorophenol	Ave	1.672	1.659		9.92	10.0	-0.8	20.0
Phenol-d5	Ave	2.220	2.309		10.4	10.0	4.1	20.0
Nitrobenzene-d5	Ave	0.5708	0.6297		11.0	10.0	10.3	20.0
2-Fluorobiphenyl (Surr)	Ave	1.264	1.269		10.0	10.0	0.4	20.0
2,4,6-Tribromophenol	Ave	0.1467	0.1564		10.7	10.0	6.6	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163142/2 Calibration Date: 01/05/2015 07:53

Instrument ID: A4HP9 Calib Start Date: 12/18/2014 10:03

GC Column: RXI-5SILMS ID: 0.45(mm) Calib End Date: 12/18/2014 13:21

Lab File ID: 50105002.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Terphenyl-d14	Ave	0.6992	0.6729		9.62	10.0	-3.8	20.0

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-163064/2-A

Matrix: Water | Lab File ID: 50105004.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 01/02/2015 09:01

Sample wt/vol: 1000(mL) | Date Analyzed: 01/05/2015 08:53

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.: 163142 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	0.28	U	10	0.28
88-06-2	2,4,6-Trichlorophenol	0.80	U	10	0.80
120-83-2	2,4-Dichlorophenol	0.80	U	10	0.80
105-67-9	2,4-Dimethylphenol	0.80	U	10	0.80
121-14-2	2,4-Dinitrotoluene	0.27	U	10	0.27
606-20-2	2,6-Dinitrotoluene	0.80	U	10	0.80
91-58-7	2-Chloronaphthalene	0.10	U	10	0.10
95-57-8	2-Chlorophenol	0.29	U	10	0.29
88-75-5	2-Nitrophenol	0.28	U	10	0.28
91-94-1	3,3'-Dichlorobenzidine	0.37	U	10	0.37
534-52-1	4,6-Dinitro-2-methylphenol	2.4	U	50	2.4
101-55-3	4-Bromophenyl phenyl ether	0.80	U	10	0.80
7005-72-3	4-Chlorophenyl phenyl ether	0.30	U	10	0.30
100-02-7	4-Nitrophenol	2.4	U	50	2.4
83-32-9	Acenaphthene	0.10	U	10	0.10
208-96-8	Acenaphthylene	0.10	U	10	0.10
120-12-7	Anthracene	0.10	U	10	0.10
92-87-5	Benzidine	2.4	U	5.0	2.4
56-55-3	Benzo[a]anthracene	0.10	U	10	0.10
50-32-8	Benzo[a]pyrene	0.10	U	10	0.10
205-99-2	Benzo[b]fluoranthene	0.10	U	10	0.10
191-24-2	Benzo[g,h,i]perylene	0.10	U	10	0.10
207-08-9	Benzo[k]fluoranthene	0.10	U	10	0.10
111-91-1	Bis(2-chloroethoxy)methane	0.32	U	10	0.32
111-44-4	Bis(2-chloroethyl)ether	0.10	U	10	0.10
117-81-7	Bis(2-ethylhexyl) phthalate	1.7	U	10	1.7
108-60-1	2,2'-oxybis[1-chloropropane]	0.40	U	10	0.40
85-68-7	Butyl benzyl phthalate	0.80	U	10	0.80
218-01-9	Chrysene	0.10	U	10	0.10
53-70-3	Dibenz(a,h)anthracene	0.10	U	10	0.10
84-66-2	Diethyl phthalate	0.60	U	10	0.60
131-11-3	Dimethyl phthalate	0.29	U	10	0.29
84-74-2	Di-n-butyl phthalate	1.7	U	10	1.7
117-84-0	Di-n-octyl phthalate	0.80	U	10	0.80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-163064/2-A

Matrix: Water | Lab File ID: 50105004.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 01/02/2015 09:01

Sample wt/vol: 1000(mL) | Date Analyzed: 01/05/2015 08:53

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.: 163142 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	0.10	U	10	0.10
86-73-7	Fluorene	0.10	U	10	0.10
118-74-1	Hexachlorobenzene	0.10	U	10	0.10
87-68-3	Hexachlorobutadiene	0.27	U	10	0.27
77-47-4	Hexachlorocyclopentadiene	0.24	U	10	0.24
67-72-1	Hexachloroethane	0.80	U	10	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	0.10	U	10	0.10
78-59-1	Isophorone	0.27	U	10	0.27
91-20-3	Naphthalene	0.10	U	10	0.10
98-95-3	Nitrobenzene	0.040	U	10	0.040
62-75-9	N-Nitrosodimethylamine	0.31	U	1.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	0.80	U	10	0.80
86-30-6	N-Nitrosodiphenylamine	0.31	U	10	0.31
59-50-7	4-Chloro-3-methylphenol	0.80	U	10	0.80
87-86-5	Pentachlorophenol	2.4	U	10	2.4
85-01-8	Phenanthrene	0.10	U	10	0.10
108-95-2	Phenol	0.60	U	10	0.60
129-00-0	Pyrene	0.10	U	10	0.10
122-66-7	1,2-Diphenylhydrazine	0.29	U	1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol	58		10-135
118-79-6	2,4,6-Tribromophenol	86		10-142
4165-60-0	Nitrobenzene-d5	93		44-110
4165-62-2	Phenol-d5	38		10-132
1718-51-0	Terphenyl-d14	87		24-135
321-60-8	2-Fluorobiphenyl (Surr)	78		38-110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-163064/3-A

Matrix: Water | Lab File ID: 50105005.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 01/02/2015 09:01

Sample wt/vol: 1000(mL) | Date Analyzed: 01/05/2015 09:18

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.: 163142 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
120-82-1	1,2,4-Trichlorobenzene	12.9		10	0.28
88-06-2	2,4,6-Trichlorophenol	15.5		10	0.80
120-83-2	2,4-Dichlorophenol	16.2		10	0.80
105-67-9	2,4-Dimethylphenol	15.5		10	0.80
121-14-2	2,4-Dinitrotoluene	17.4		10	0.27
606-20-2	2,6-Dinitrotoluene	16.5		10	0.80
91-58-7	2-Chloronaphthalene	14.7		10	0.10
95-57-8	2-Chlorophenol	15.1		10	0.29
88-75-5	2-Nitrophenol	15.8		10	0.28
91-94-1	3,3'-Dichlorobenzidine	33.5		10	0.37
534-52-1	4,6-Dinitro-2-methylphenol	36.6	J	50	2.4
101-55-3	4-Bromophenyl phenyl ether	15.5		10	0.80
7005-72-3	4-Chlorophenyl phenyl ether	14.9		10	0.30
100-02-7	4-Nitrophenol	18.3	J	50	2.4
83-32-9	Acenaphthene	14.8		10	0.10
208-96-8	Acenaphthylene	14.5		10	0.10
120-12-7	Anthracene	14.9		10	0.10
92-87-5	Benzidine	29.2		5.0	2.4
56-55-3	Benzo[a]anthracene	14.8		10	0.10
50-32-8	Benzo[a]pyrene	15.5		10	0.10
205-99-2	Benzo[b]fluoranthene	15.0		10	0.10
191-24-2	Benzo[g,h,i]perylene	16.0		10	0.10
207-08-9	Benzo[k]fluoranthene	17.0		10	0.10
111-91-1	Bis(2-chloroethoxy)methane	16.6		10	0.32
111-44-4	Bis(2-chloroethyl)ether	15.9		10	0.10
117-81-7	Bis(2-ethylhexyl) phthalate	16.4		10	1.7
108-60-1	2,2'-oxybis[1-chloropropane]	17.9		10	0.40
85-68-7	Butyl benzyl phthalate	15.1		10	0.80
218-01-9	Chrysene	14.9		10	0.10
53-70-3	Dibenz(a,h)anthracene	15.5		10	0.10
84-66-2	Diethyl phthalate	16.4		10	0.60
131-11-3	Dimethyl phthalate	15.2		10	0.29
84-74-2	Di-n-butyl phthalate	16.8		10	1.7
117-84-0	Di-n-octyl phthalate	15.1		10	0.80

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-163064/3-A

Matrix: Water | Lab File ID: 50105005.D

Analysis Method: 625 | Date Collected:

Extract. Method: 625 | Date Extracted: 01/02/2015 09:01

Sample wt/vol: 1000(mL) | Date Analyzed: 01/05/2015 09:18

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.: 163142 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
206-44-0	Fluoranthene	15.9		10	0.10
86-73-7	Fluorene	14.4		10	0.10
118-74-1	Hexachlorobenzene	15.2		10	0.10
87-68-3	Hexachlorobutadiene	12.6		10	0.27
77-47-4	Hexachlorocyclopentadiene	9.50	J	10	0.24
67-72-1	Hexachloroethane	12.0		10	0.80
193-39-5	Indeno[1,2,3-cd]pyrene	16.2		10	0.10
78-59-1	Isophorone	16.7		10	0.27
91-20-3	Naphthalene	14.2		10	0.10
98-95-3	Nitrobenzene	17.4		10	0.040
62-75-9	N-Nitrosodimethylamine	11.7		1.0	0.31
621-64-7	N-Nitrosodi-n-propylamine	17.8		10	0.80
86-30-6	N-Nitrosodiphenylamine	30.3		10	0.31
59-50-7	4-Chloro-3-methylphenol	16.9		10	0.80
87-86-5	Pentachlorophenol	26.5		10	2.4
85-01-8	Phenanthrene	15.2		10	0.10
108-95-2	Phenol	7.20	J	10	0.60
129-00-0	Pyrene	15.6		10	0.10
122-66-7	1,2-Diphenylhydrazine	17.1		1.0	0.29

CAS NO.	SURROGATE	%REC	Q	LIMITS
367-12-4	2-Fluorophenol	53		10-135
118-79-6	2,4,6-Tribromophenol	88		10-142
4165-60-0	Nitrobenzene-d5	89		44-110
4165-62-2	Phenol-d5	37		10-132
1718-51-0	Terphenyl-d14	83		24-135
321-60-8	2-Fluorobiphenyl (Surr)	75		38-110

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A4HP9 Start Date: 12/18/2014 09:42

Analysis Batch Number: 161586 End Date: 12/18/2014 23:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-161586/1		12/18/2014 09:42	1	41218001.D	RXI-5SILMS 0.45(mm)
STD5 240-161586/2 IC		12/18/2014 10:03	1	41218002.D	RXI-5SILMS 0.45(mm)
STD4 240-161586/3 IC		12/18/2014 10:27	1	41218003.D	RXI-5SILMS 0.45(mm)
STD3 240-161586/4 IC		12/18/2014 10:52	1	41218004.D	RXI-5SILMS 0.45(mm)
STD2 240-161586/5 IC		12/18/2014 11:17	1	41218005.D	RXI-5SILMS 0.45(mm)
STD1 240-161586/6 IC		12/18/2014 11:42	1	41218006.D	RXI-5SILMS 0.45(mm)
STD9 240-161586/7 IC		12/18/2014 12:07	1	41218007.D	RXI-5SILMS 0.45(mm)
STD8 240-161586/8 IC		12/18/2014 12:32	1	41218008.D	RXI-5SILMS 0.45(mm)
STD7 240-161586/9 IC		12/18/2014 12:56	1	41218009.D	RXI-5SILMS 0.45(mm)
STD6 240-161586/10 ICIS		12/18/2014 13:21	1	41218010.D	RXI-5SILMS 0.45(mm)
ICV 240-161586/11		12/18/2014 13:46	1	41218011.D	RXI-5SILMS 0.45(mm)
STD5 240-161586/12 IC		12/18/2014 14:11	1		RXI-5SILMS 0.45(mm)
STD4 240-161586/13 IC		12/18/2014 14:36	1		RXI-5SILMS 0.45(mm)
STD3 240-161586/14 IC		12/18/2014 15:00	1		RXI-5SILMS 0.45(mm)
STD2 240-161586/15 IC		12/18/2014 15:25	1		RXI-5SILMS 0.45(mm)
STD6 240-161586/16 IC		12/18/2014 15:49	1		RXI-5SILMS 0.45(mm)
STD7 240-161586/17 IC		12/18/2014 16:14	1		RXI-5SILMS 0.45(mm)
STD8 240-161586/18 IC		12/18/2014 16:39	1		RXI-5SILMS 0.45(mm)
STD9 240-161586/19 IC		12/18/2014 17:04	1		RXI-5SILMS 0.45(mm)
ICV 240-161586/20		12/18/2014 17:29	1		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 17:53	1		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 18:18	1		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 18:43	1		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 19:08	1		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 19:33	1		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 20:22	1		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 20:47	1		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 21:12	1		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 21:37	50		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 22:01	10		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 22:26	50		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 22:51	20		RXI-5SILMS 0.45(mm)
ZZZZZ		12/18/2014 23:16	5		RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A4HP9 Start Date: 01/05/2015 07:32

Analysis Batch Number: 163142 End Date: 01/05/2015 09:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-163142/1		01/05/2015 07:32	1	50105001.D	RXI-5SILMS 0.45(mm)
CCV 240-163142/2 CCVIS		01/05/2015 07:53	1	50105002.D	RXI-5SILMS 0.45(mm)
MB 240-163064/2-A		01/05/2015 08:53	1	50105004.D	RXI-5SILMS 0.45(mm)
LCS 240-163064/3-A		01/05/2015 09:18	1	50105005.D	RXI-5SILMS 0.45(mm)
240-45978-2	DSP-2-123014 (COMP)	01/05/2015 09:43	1	50105006.D	RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163064 Batch Start Date: 01/02/15 09:01 Batch Analyst: Ross, Justin

Batch Method: 625 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	EXBNASPIKE 00033
240-45978-E-2	DSP-2-123014 (COMP)	625, 625	T	1000 mL	2 mL	5 SU	12 SU	2 SU	
MB 240-163064/2		625, 625		1000 mL	2 mL	7 SU	12 SU	2 SU	
LCS 240-163064/3		625, 625		1000 mL	2 mL	7 SU	12 SU	2 SU	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	EXBNASURR W 00019	AnalysisComment				
240-45978-E-2	DSP-2-123014 (COMP)	625, 625	T	1 mL	assoc. w/163065				
MB 240-163064/2		625, 625		1 mL	assoc. w/163065				
LCS 240-163064/3		625, 625		1 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 625 Dioxin Screen

Dioxin Screen (GC/MS SIM) by Method 625

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab File ID: 50105008a.d Lab Sample ID: MB 240-163065/2-A

Matrix: Water Date Extracted: 01/02/2015 09:03

Instrument ID: A4HP9 Date Analyzed: 01/05/2015 11:01

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
DSP-2-123014 (COMP)	240-45978-2	50105011a.d	01/05/2015 11:56

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab File ID: BFB Injection Date:

Instrument ID: BFB Injection Time:

Lab File ID: DFTPP Injection Date:

Instrument ID: DFTPP Injection Time:

Analysis Batch No.:

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE

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
	STD 240-163205/2	50105003a.d	01/05/2015	08:31
	MB 240-163065/2-A	50105008a.d	01/05/2015	11:01
DSP-2-123014 (COMP)	240-45978-2	50105011a.d	01/05/2015	11:56

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Client Sample ID: DSP-2-123014 (COMP) Lab Sample ID: 240-45978-2

Matrix: Water Lab File ID: 50105011a.d

Analysis Method: 625 Date Collected: 12/30/2014 10:40

Extract. Method: 3510C Date Extracted: 01/02/2015 09:03

Sample wt/vol: 1000(mL) Date Analyzed: 01/05/2015 11:56

Con. Extract Vol.: 0.4(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 163205 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1746-01-6	2,3,7,8-TCDD	NEG			

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163205

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/05/2015 08:31 Calibration End Date: 01/05/2015 08:31 Calibration ID: 25976

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163205/2	50105003a.d

ANALYTE	LVL 1										RT WINDOW	AVG RT
2,3,7,8-TCDD	8.444										7.944 - 8.944	8.444

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163205

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/05/2015 08:31 Calibration End Date: 01/05/2015 08:31 Calibration ID: 25976

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163205/2	50105003a.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1					B	M1	M2								
2,3,7,8-TCDD	1162.9				Ave		1162.88000						30.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163205

SDG No.:

Instrument ID: A4HP9 GC Column: RXI-5SILMS ID: 0.45(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/05/2015 08:31 Calibration End Date: 01/05/2015 08:31 Calibration ID: 25976

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163205/2	50105003a.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1					LVL 1				
2,3,7,8-TCDD	Ave	58144					50.0				

Curve Type Legend:

Ave = Average

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-163065/2-A

Matrix: Water Lab File ID: 50105008a.d

Analysis Method: 625 Date Collected:

Extract. Method: 3510C Date Extracted: 01/02/2015 09:03

Sample wt/vol: 1000(mL) Date Analyzed: 01/05/2015 11:01

Con. Extract Vol.: 0.4(mL) Dilution Factor: 1

Injection Volume: 1(uL) Level: (low/med) Low

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 163205 Units: ng/uL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1746-01-6	2,3,7,8-TCDD	NEG			

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A4HP9 Start Date: 01/05/2015 07:32

Analysis Batch Number: 163205 End Date: 01/05/2015 11:56

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 240-163205/1		01/05/2015 07:32	1	50105001a.d	RXI-5SILMS 0.45(mm)
STD 240-163205/2 IC		01/05/2015 08:31	1	50105003a.d	RXI-5SILMS 0.45(mm)
ZZZZZ		01/05/2015 10:42	1		RXI-5SILMS 0.45(mm)
MB 240-163065/2-A		01/05/2015 11:01	1	50105008a.d	RXI-5SILMS 0.45(mm)
ZZZZZ		01/05/2015 11:19	1		RXI-5SILMS 0.45(mm)
ZZZZZ		01/05/2015 11:38	1		RXI-5SILMS 0.45(mm)
240-45978-2	DSP-2-123014 (COMP)	01/05/2015 11:56	1	50105011a.d	RXI-5SILMS 0.45(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163065 Batch Start Date: 01/02/15 09:03 Batch Analyst: Ross, Justin

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	FirstAdjustpH	SecondAdjustpH	AnalysisComment
240-45978-E-2	DSP-2-123014 (COMP)	3510C, 625	T	5	1000 mL	0.4 mL	12	2	assoc. w/163064
MB 240-163065/2		3510C, 625		7	1000 mL	0.4 mL	12	2	assoc. w/163064

Batch Notes	
Acid used for pH adjust Lot #	1555634
Base used for pH adjust Lot #	1751775
Na2SO4 Lot Number	1555584
Prep Solvent Lot #	1826835

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 608
Pesticides

Organochlorine Pesticides (GC) by Method 608

FORM II
GC SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	TCX2 #	DCB1 #	DCB2 #
DSP-2-123014 (COMP)	240-45978-2	79	81	28	27
	MB 240-163139/4-A	95	124	67	69
	LCS 240-163139/5-A	93	95	83	80

	QC LIMITS
TCX = Tetrachloro-m-xylene	10-151
DCB = DCB Decachlorobiphenyl	10-151

Column to be used to flag recovery values

FORM II 608

FORM III
GC SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F0010621.D

Lab ID: LCS 240-163139/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Aldrin	0.500	0.388	78	42-122	
alpha-BHC	0.500	0.425	85	37-134	
beta-BHC	0.500	0.389	78	17-147	
delta-BHC	0.500	0.412	82	19-140	
gamma-BHC (Lindane)	0.500	0.419	84	32-127	
4,4'-DDD	0.500	0.413	83	31-141	
4,4'-DDE	0.500	0.421	84	30-145	
4,4'-DDT	0.500	0.482	96	25-160	
Dieldrin	0.500	0.428	86	36-146	
Endosulfan I	0.500	0.286	57	45-153	
Endosulfan II	0.500	0.330	66	10-202	
Endosulfan sulfate	0.500	0.397	79	26-144	
Endrin	0.500	0.427	85	30-147	
Heptachlor	0.500	0.426	85	34-111	
Heptachlor epoxide	0.500	0.412	82	37-142	

Column to be used to flag recovery and RPD values

FORM III 608

FORM IV
GC SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: MB 240-163139/4-A

Matrix: Water Date Extracted: 01/05/2015 06:51

Lab File ID:(1) F0010620.D Lab File ID:(2) F0010620.D

Date Analyzed:(1) 01/06/2015 15:59 Date Analyzed:(2) 01/06/2015 15:59

Instrument ID:(1) A2HP15 Instrument ID:(2) A2HP15

GC Column:(1) CLP-1 ID: 0.53(mm) GC Column:(2) CLP-2 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
DSP-2-123014 (COMP)	240-45978-2	01/06/2015 14:54	01/06/2015 14:54
	LCS 240-163139/5-A	01/06/2015 16:21	01/06/2015 16:21

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: STD 240-163079/20 Date Analyzed: 01/02/2015 18:18

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): F0010220.D Heated Purge: (Y/N) N

Calibration ID: 25974

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				3.60	13.02	
UPPER LIMIT				3.63	13.05	
LOWER LIMIT				3.57	12.99	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD 240-163079/20 ICRT		01/02/2015 18:18	F0010220.D	3.60	13.02	

Column used to flag values outside QC limits

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: STD 240-163079/20 Date Analyzed: 01/02/2015 18:18

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): F0010220.D Heated Purge: (Y/N) N

Calibration ID: 25975

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				4.18	14.42	
UPPER LIMIT				4.21	14.45	
LOWER LIMIT				4.15	14.39	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD 240-163079/20 ICRT		01/02/2015 18:18	F0010220.D	4.18	14.42	

Column used to flag values outside QC limits

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: CCV 240-163275/8 Date Analyzed: 01/06/2015 11:38

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm)

Lab File ID (Standard): F0010608.D Heated Purge: (Y/N) N

Calibration ID: 25974

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				3.60	13.02	
UPPER LIMIT				3.63	13.05	
LOWER LIMIT				3.57	12.99	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-163275/8 CCVRT		01/06/2015 11:38	F0010608.D	3.60	13.02	
CCV 240-163275/16		01/06/2015 14:32	F0010616.D	3.60	13.02	
240-45978-2	DSP-2-123014 (COMP)	01/06/2015 14:54	F0010617.D	3.60	13.02	
MB 240-163139/4-A		01/06/2015 15:59	F0010620.D	3.60	13.02	
LCS 240-163139/5-A		01/06/2015 16:21	F0010621.D	3.60	13.02	
CCV 240-163275/24		01/06/2015 17:26	F0010624.D	3.60	13.02	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 608

FORM VIII
GC SEMI VOA ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: CCV 240-163275/8 Date Analyzed: 01/06/2015 11:38

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): F0010608.D Heated Purge: (Y/N) N

Calibration ID: 25975

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				4.19	14.42	
UPPER LIMIT				4.22	14.45	
LOWER LIMIT				4.16	14.39	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-163275/8 CCVRT		01/06/2015 11:38	F0010608.D	4.19	14.42	
CCV 240-163275/16		01/06/2015 14:32	F0010616.D	4.18	14.42	
240-45978-2	DSP-2-123014 (COMP)	01/06/2015 14:54	F0010617.D	4.18	14.42	
MB 240-163139/4-A		01/06/2015 15:59	F0010620.D	4.19	14.42	
LCS 240-163139/5-A		01/06/2015 16:21	F0010621.D	4.18	14.42	
CCV 240-163275/24		01/06/2015 17:26	F0010624.D	4.18	14.42	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.03 minutes of surrogate RT
DCB RT Limit = ± 0.03 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 608

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-163139/5-A

Instrument ID (1): A2HP15 Instrument ID (2): A2HP15

Date Analyzed (1): 01/06/2015 16:21 Date Analyzed (2): 01/06/2015 16:21

GC Column (1): CLP-1 ID: 0.53(mm) GC Column (2): CLP-2 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
alpha-BHC	1		4.30	4.27	4.33	0.425		4.9
	2		5.05	5.02	5.08	0.405		
gamma-BHC (Lindane)	1		4.69	4.66	4.72	0.419		2.6
	2		5.65	5.62	5.68	0.409		
beta-BHC	1		4.83	4.80	4.86	0.389		8.8
	2		5.84	5.81	5.87	0.425		
delta-BHC	1		5.06	5.03	5.09	0.412		4.3
	2		6.44	6.41	6.47	0.395		
Heptachlor	1		5.36	5.33	5.39	0.426		4.4
	2		6.51	6.49	6.55	0.444		
Aldrin	1		5.84	5.81	5.87	0.388		7.3
	2		7.29	7.26	7.32	0.417		
Heptachlor epoxide	1		7.14	7.12	7.18	0.412		6.7
	2		8.76	8.73	8.79	0.440		
Endosulfan I	1		8.07	8.04	8.10	0.286		4.9
	2		9.54	9.51	9.57	0.300		
4,4'-DDE	1		8.16	8.13	8.19	0.421		3.9
	2		9.91	9.88	9.94	0.405		
Dieldrin	1		8.61	8.58	8.64	0.428		6.5
	2		10.06	10.03	10.09	0.457		
Endrin	1		9.06	9.03	9.09	0.427		6.6
	2		10.58	10.55	10.61	0.456		
4,4'-DDD	1		9.41	9.38	9.44	0.413		9.3
	2		10.91	10.89	10.95	0.454		
Endosulfan II	1		9.50	9.48	9.54	0.330		2.7
	2		10.96	10.93	10.99	0.340		
4,4'-DDT	1		9.92	9.90	9.96	0.482		8.6
	2		11.40	11.37	11.43	0.442		
Endrin aldehyde	1		10.29	10.26	10.32	0.384		5.9
	2		11.52	11.49	11.55	0.407		
Endosulfan sulfate	1		11.01	10.98	11.04	0.397		5.6
	2		11.94	11.92	11.98	0.420		

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: DSP-2-123014 (COMP) | Lab Sample ID: 240-45978-2

Matrix: Water | Lab File ID: F0010617.D

Analysis Method: 608 | Date Collected: 12/30/2014 10:40

Extraction Method: 608 | Date Extracted: 01/05/2015 06:51

Sample wt/vol: 1050(mL) | Date Analyzed: 01/06/2015 14:54

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 163275 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	0.012	U	0.048	0.012
319-84-6	alpha-BHC	0.013	U	0.048	0.013
319-85-7	beta-BHC	0.012	U	0.048	0.012
319-86-8	delta-BHC	0.028	U	0.048	0.028
58-89-9	gamma-BHC (Lindane)	0.011	U	0.048	0.011
57-74-9	Chlordane (technical)	0.031	U	0.48	0.031
STL00379	Chlordane (technical) Peak 1	0.031	U	0.48	0.031
STL00380	Chlordane (technical) Peak 2	0.031	U	0.48	0.031
STL00084	Chlordane (technical) Peak 3	0.031	U	0.48	0.031
STL00065	Chlordane (technical) Peak 4	0.031	U	0.48	0.031
72-54-8	4,4'-DDD	0.017	U	0.048	0.017
72-55-9	4,4'-DDE	0.0086	U	0.048	0.0086
50-29-3	4,4'-DDT	0.013	U	0.048	0.013
60-57-1	Dieldrin	0.012	U	0.048	0.012
959-98-8	Endosulfan I	0.015	U	0.048	0.015
33213-65-9	Endosulfan II	0.014	U	0.048	0.014
1031-07-8	Endosulfan sulfate	0.010	U	0.048	0.010
72-20-8	Endrin	0.011	U	0.048	0.011
7421-93-4	Endrin aldehyde	0.0076	U	0.048	0.0076
76-44-8	Heptachlor	0.0048	U	0.048	0.0048
1024-57-3	Heptachlor epoxide	0.013	U	0.048	0.013
8001-35-2	Toxaphene	0.19	U	1.9	0.19
STL00100	Toxaphene Peak 1	0.19	U	1.9	0.19
STL00109	Toxaphene Peak 2	0.19	U	1.9	0.19
STL00220	Toxaphene Peak 3	0.19	U	1.9	0.19
STL00083	Toxaphene Peak 4	0.19	U	1.9	0.19
STL00051	Toxaphene Peak 5	0.19	U	1.9	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	28		10-151
877-09-8	Tetrachloro-m-xylene	79		10-151

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Client Sample ID: DSP-2-123014 (COMP) Lab Sample ID: 240-45978-2

Matrix: Water Lab File ID: F0010617.D

Analysis Method: 608 Date Collected: 12/30/2014 10:40

Extraction Method: 608 Date Extracted: 01/05/2015 06:51

Sample wt/vol: 1050(mL) Date Analyzed: 01/06/2015 14:54

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 163275 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	27		10-151
877-09-8	Tetrachloro-m-xylene	81		10-151

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 12:52 Calibration End Date: 01/02/2015 14:19 Calibration ID: 25962

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/5	F0010205.D
Level 2	STD 240-163079/6	F0010206.D
Level 3	STD 240-163079/7	F0010207.D
Level 4	STD 240-163079/8	F0010208.D
Level 5	STD 240-163079/9	F0010209.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	9.712	9.710	9.711	9.706	9.711						9.676 - 9.736	9.710
Toxaphene Peak 2	10.167	10.169	10.169	10.165	10.167						10.137 - 10.197	10.167
Toxaphene Peak 3	10.479	10.477	10.480	10.480	10.477						10.447 - 10.507	10.479
Toxaphene Peak 4	10.820	10.820	10.820	10.819	10.818						10.788 - 10.848	10.819
Toxaphene Peak 5	10.923	10.925	10.925	10.924	10.924						10.894 - 10.954	10.924

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 12:52 Calibration End Date: 01/02/2015 14:19 Calibration ID: 25962

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/5	F0010205.D
Level 2	STD 240-163079/6	F0010206.D
Level 3	STD 240-163079/7	F0010207.D
Level 4	STD 240-163079/8	F0010208.D
Level 5	STD 240-163079/9	F0010209.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	26805 28425	28838	28832	26908	Ave		27961.6621				3.7		10.0			
Toxaphene Peak 2	25835 25092	25847	25923	24640	Ave		25467.6076				2.2		10.0			
Toxaphene Peak 3	14061 15800	15315	15342	14274	Ave		14958.1559				5.0		10.0			
Toxaphene Peak 4	21718 20964	21111	21672	19732	Ave		21039.3884				3.8		10.0			
Toxaphene Peak 5	18123 20761	18182	19554	18194	Ave		18962.7042				6.2		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 12:52 Calibration End Date: 01/02/2015 14:19 Calibration ID: 25962

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/5	F0010205.D
Level 2	STD 240-163079/6	F0010206.D
Level 3	STD 240-163079/7	F0010207.D
Level 4	STD 240-163079/8	F0010208.D
Level 5	STD 240-163079/9	F0010209.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Ave	5361044	14418797	28832177	53815681	142127396	200	500	1000	2000	5000
Toxaphene Peak 2	Ave	5167085	12923609	25923143	49280644	125459651	200	500	1000	2000	5000
Toxaphene Peak 3	Ave	2812224	7657307	15341553	28547713	78998179	200	500	1000	2000	5000
Toxaphene Peak 4	Ave	4343591	10555613	21671599	39463411	104822282	200	500	1000	2000	5000
Toxaphene Peak 5	Ave	3624658	9090957	19553520	36388144	103803625	200	500	1000	2000	5000

Curve Type Legend:
Ave = Average

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 12:52 Calibration End Date: 01/02/2015 14:19 Calibration ID: 25963

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/5	F0010205.D
Level 2	STD 240-163079/6	F0010206.D
Level 3	STD 240-163079/7	F0010207.D
Level 4	STD 240-163079/8	F0010208.D
Level 5	STD 240-163079/9	F0010209.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Toxaphene Peak 1	10.932	10.933	10.931	10.933	10.931						10.902 - 10.962	10.932
Toxaphene Peak 2	11.102	11.104	11.104	11.103	11.103						11.072 - 11.132	11.103
Toxaphene Peak 3	11.532	11.533	11.532	11.533	11.532						11.501 - 11.561	11.532
Toxaphene Peak 4	12.269	12.270	12.269	12.268	12.268						12.237 - 12.297	12.269
Toxaphene Peak 5	12.359	12.358	12.358	12.359	12.359						12.328 - 12.388	12.359

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 12:52 Calibration End Date: 01/02/2015 14:19 Calibration ID: 25963

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/5	F0010205.D
Level 2	STD 240-163079/6	F0010206.D
Level 3	STD 240-163079/7	F0010207.D
Level 4	STD 240-163079/8	F0010208.D
Level 5	STD 240-163079/9	F0010209.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Toxaphene Peak 1	68511 71036	66568	69292	69198	Ave		68920.8747				2.3		10.0			
Toxaphene Peak 2	65782 68469	65980	67170	66144	Ave		66709.0844				1.7		10.0			
Toxaphene Peak 3	41254 46597	42969	44666	45326	Ave		44162.3062				4.7		10.0			
Toxaphene Peak 4	38351 54791	49693	51722	52084	Lin1	-3275504.5	55027.5068							1.0000		0.9900
Toxaphene Peak 5	13533 18178	15305	16529	16981	Lin1	-1146627.1	18100.2834							0.9990		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 12:52 Calibration End Date: 01/02/2015 14:19 Calibration ID: 25963

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/5	F0010205.D
Level 2	STD 240-163079/6	F0010206.D
Level 3	STD 240-163079/7	F0010207.D
Level 4	STD 240-163079/8	F0010208.D
Level 5	STD 240-163079/9	F0010209.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Toxaphene Peak 1	Ave	13702251	33283788	69292497	138395075	355177541	200	500	1000	2000	5000
Toxaphene Peak 2	Ave	13156446	32990104	67170175	132288573	342342612	200	500	1000	2000	5000
Toxaphene Peak 3	Ave	8250815	21484414	44665514	90652648	232983951	200	500	1000	2000	5000
Toxaphene Peak 4	Lin1	7670270	24846328	51721860	104167042	273956286	200	500	1000	2000	5000
Toxaphene Peak 5	Lin1	2706599	7652473	16528849	33962297	90889112	200	500	1000	2000	5000

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 15:03 Calibration End Date: 01/02/2015 16:30 Calibration ID: 25968

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/11	F0010211.D
Level 2	STD 240-163079/12	F0010212.D
Level 3	STD 240-163079/13	F0010213.D
Level 4	STD 240-163079/14	F0010214.D
Level 5	STD 240-163079/15	F0010215.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Chlordane (technical) Peak 1	5.235	5.235	5.236	5.236	5.236						5.206 - 5.266	5.236
Chlordane (technical) Peak 2	6.144	6.144	6.144	6.145	6.145						6.114 - 6.174	6.144
Chlordane (technical) Peak 3	7.469	7.468	7.469	7.470	7.467						7.439 - 7.499	7.469
Chlordane (technical) Peak 4	7.796	7.795	7.796	7.796	7.795						7.766 - 7.826	7.796

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 15:03 Calibration End Date: 01/02/2015 16:30 Calibration ID: 25968

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/11	F0010211.D
Level 2	STD 240-163079/12	F0010212.D
Level 3	STD 240-163079/13	F0010213.D
Level 4	STD 240-163079/14	F0010214.D
Level 5	STD 240-163079/15	F0010215.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Chlordane (technical) Peak 1	40443 34462	37687	35479	36129	Ave		36839.8212				6.3		10.0			
Chlordane (technical) Peak 2	52020 38135	46914	42729	44552	Lin1	335364.879	39034.4915							0.9950		0.9900
Chlordane (technical) Peak 3	157775 135979	143850	140235	142533	Ave		144074.339				5.7		10.0			
Chlordane (technical) Peak 4	235563 210541	217897	202368	222746	Ave		217823.060				5.8		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 15:03 Calibration End Date: 01/02/2015 16:30 Calibration ID: 25968

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/11	F0010211.D
Level 2	STD 240-163079/12	F0010212.D
Level 3	STD 240-163079/13	F0010213.D
Level 4	STD 240-163079/14	F0010214.D
Level 5	STD 240-163079/15	F0010215.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	Ave	808856	1884329	3547894	7225798	17230898	20.0	50.0	100	200	500
Chlordane (technical) Peak 2	Lin1	1040390	2345715	4272878	8910308	19067541	20.0	50.0	100	200	500
Chlordane (technical) Peak 3	Ave	3155491	7192519	14023487	28506588	67989477	20.0	50.0	100	200	500
Chlordane (technical) Peak 4	Ave	4711267	10894835	20236797	44549298	105270394	20.0	50.0	100	200	500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 15:03 Calibration End Date: 01/02/2015 16:30 Calibration ID: 25969

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/11	F0010211.D
Level 2	STD 240-163079/12	F0010212.D
Level 3	STD 240-163079/13	F0010213.D
Level 4	STD 240-163079/14	F0010214.D
Level 5	STD 240-163079/15	F0010215.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5						RT WINDOW	AVG RT
Chlordane (technical) Peak 1	6.200	6.200	6.200	6.200	6.201						6.170 - 6.230	6.200
Chlordane (technical) Peak 2	7.793	7.793	7.792	7.791	7.790						7.762 - 7.822	7.792
Chlordane (technical) Peak 3	9.164	9.165	9.163	9.164	9.164						9.133 - 9.193	9.164
Chlordane (technical) Peak 4	9.469	9.469	9.469	9.468	9.469						9.439 - 9.499	9.469

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 15:03 Calibration End Date: 01/02/2015 16:30 Calibration ID: 25969

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/11	F0010211.D
Level 2	STD 240-163079/12	F0010212.D
Level 3	STD 240-163079/13	F0010213.D
Level 4	STD 240-163079/14	F0010214.D
Level 5	STD 240-163079/15	F0010215.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2	LVL 3	LVL 4		B	M1	M2								
Chlordane (technical) Peak 1	72658 68909	69831	67629	71480	Ave		70101.5426				2.9		10.0			
Chlordane (technical) Peak 2	104697 67586	86067	76578	73986	Lin1	838989.648	67184.2997							0.9990		0.9900
Chlordane (technical) Peak 3	252782 264420	236430	242973	255377	Ave		250396.222				4.4		10.0			
Chlordane (technical) Peak 4	233692 234620	215307	220455	230472	Ave		226909.137				3.8		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 15:03 Calibration End Date: 01/02/2015 16:30 Calibration ID: 25969

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/11	F0010211.D
Level 2	STD 240-163079/12	F0010212.D
Level 3	STD 240-163079/13	F0010213.D
Level 4	STD 240-163079/14	F0010214.D
Level 5	STD 240-163079/15	F0010215.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
Chlordane (technical) Peak 1	Ave	1453167	3491568	6762917	14296025	34454354	20.0	50.0	100	200	500
Chlordane (technical) Peak 2	Lin1	2093942	4303335	7657789	14797154	33793069	20.0	50.0	100	200	500
Chlordane (technical) Peak 3	Ave	5055633	11821475	24297344	51075376	132209820	20.0	50.0	100	200	500
Chlordane (technical) Peak 4	Ave	4673846	10765343	22045450	46094361	117310110	20.0	50.0	100	200	500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 17:35 Calibration End Date: 01/02/2015 19:23 Calibration ID: 25974

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/18	F0010218.D
Level 2	STD 240-163079/19	F0010219.D
Level 3	STD 240-163079/20	F0010220.D
Level 4	STD 240-163079/21	F0010221.D
Level 5	STD 240-163079/22	F0010222.D
Level 6	STD 240-163079/23	F0010223.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	4.296	4.296	4.295	4.295	4.297	4.296					4.267 - 4.327	4.296
gamma-BHC (Lindane)	4.691	4.691	4.690	4.690	4.691	4.691					4.662 - 4.722	4.691
beta-BHC	4.831	4.831	4.830	4.830	4.831	4.830					4.804 - 4.864	4.831
delta-BHC	5.060	5.060	5.060	5.059	5.060	5.058					5.034 - 5.094	5.060
Heptachlor	5.357	5.358	5.356	5.356	5.357	5.357					5.329 - 5.389	5.357
Aldrin	5.836	5.837	5.836	5.835	5.837	5.836					5.809 - 5.869	5.836
Heptachlor epoxide	7.141	7.141	7.140	7.141	7.141	7.140					7.114 - 7.174	7.141
gamma-Chlordane	7.467	7.466	7.466	7.464	7.467	7.465					7.439 - 7.499	7.466
alpha-Chlordane	7.800	7.800	7.799	7.799	7.799	7.797					7.773 - 7.833	7.799
Endosulfan I	8.065	8.065	8.063	8.064	8.066	8.064					8.037 - 8.097	8.065
4,4'-DDE	8.159	8.158	8.159	8.158	8.157	8.157					8.130 - 8.190	8.158
Dieldrin	8.610	8.610	8.607	8.609	8.609	8.607					8.580 - 8.640	8.609
Endrin	9.058	9.055	9.055	9.054	9.057	9.055					9.029 - 9.089	9.056
4,4'-DDD	9.409	9.409	9.407	9.407	9.407	9.406					9.379 - 9.439	9.408
Endosulfan II	9.502	9.501	9.500	9.499	9.500	9.499					9.472 - 9.532	9.500
4,4'-DDT	9.922	9.924	9.920	9.921	9.921	9.920					9.892 - 9.952	9.921
Endrin aldehyde	10.289	10.287	10.286	10.286	10.287	10.285					10.258 - 10.318	10.287
Methoxychlor	10.866	10.867	10.864	10.864	10.863	10.863					10.834 - 10.894	10.865
Endosulfan sulfate	11.006	11.008	11.006	11.006	11.006	11.005					10.978 - 11.038	11.006
Endrin ketone	11.409	11.409	11.409	11.409	11.407	11.407					11.380 - 11.440	11.408
Tetrachloro-m-xylene	3.601	3.602	3.601	3.600	3.601	3.601					3.572 - 3.632	3.601
DCB Decachlorobiphenyl	13.018	13.019	13.017	13.017	13.017	13.017					12.989 - 13.049	13.018

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 17:35 Calibration End Date: 01/02/2015 19:23 Calibration ID: 25974

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/18	F0010218.D
Level 2	STD 240-163079/19	F0010219.D
Level 3	STD 240-163079/20	F0010220.D
Level 4	STD 240-163079/21	F0010221.D
Level 5	STD 240-163079/22	F0010222.D
Level 6	STD 240-163079/23	F0010223.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	1105287 1191257	1088759 1224776	1194302	1205295	Ave		1168279.42				4.9		10.0			
gamma-BHC (Lindane)	1035646 1067956	997710 1100497	1076214	1080327	Ave		1059724.91				3.5		10.0			
beta-BHC	510005 436843	468017 450238	474227	450555	Ave		464980.759				5.6		10.0			
delta-BHC	910643 1019512	929140 1065686	1004869	990445	Ave		986715.781				5.9		10.0			
Heptachlor	1093728 1079614	1043979 1100604	1107184	1101522	Ave		1087771.78				2.2		10.0			
Aldrin	1049811 1049126	1002618 1079139	1079189	1065423	Ave		1054217.59				2.7		10.0			
Heptachlor epoxide	1027201 952566	969424 968781	996245	969285	Ave		980583.711				2.7		10.0			
gamma-Chlordane	1008731 985648	957768 1024939	1011445	990674	Ave		996534.288				2.4		10.0			
alpha-Chlordane	1036279 960782	967308 991417	1007803	977819	Ave		990234.716				2.8		10.0			
Endosulfan I	973062 901218	911304 916276	951560	919910	Ave		928888.288				3.0		10.0			
4,4'-DDE	909104 956602	871025 995408	956159	950588	Ave		939814.300				4.6		10.0			
Dieldrin	988868 979780	937338 1001356	999072	985483	Ave		981982.909				2.4		10.0			
Endrin	922679 911108	884357 931477	927713	914040	Ave		915229.038				1.9		10.0			
4,4'-DDD	731587 743788	709637 777137	756356	747239	Ave		744290.668				3.1		10.0			
Endosulfan II	894499 823639	881086 837852	896459	856545	Ave		865013.383				3.5		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 17:35 Calibration End Date: 01/02/2015 19:23 Calibration ID: 25974

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	577439 618205	580658 696216	616799	613694	Ave		617168.576				6.9		10.0			
Endrin aldehyde	686066 632155	668277 628106	667970	648080	Ave		655109.179				3.5		10.0			
Methoxychlor	379962 328076	366342 347226	369007	335313	Ave		354321.236				5.8		10.0			
Endosulfan sulfate	761537 669041	718676 684630	726794	678482	Ave		706526.508				5.0		10.0			
Endrin ketone	872043 795788	838548 828507	869309	808232	Ave		835404.467				3.7		10.0			
Tetrachloro-m-xylene	714504 665703	677259 679019	698372	683410	Ave		686377.894				2.5		10.0			
DCB Decachlorobiphenyl	699709 555302	659488 571569	639263	582372	Ave		617950.476				9.2		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 17:35 Calibration End Date: 01/02/2015 19:23 Calibration ID: 25974

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/18	F0010218.D
Level 2	STD 240-163079/19	F0010219.D
Level 3	STD 240-163079/20	F0010220.D
Level 4	STD 240-163079/21	F0010221.D
Level 5	STD 240-163079/22	F0010222.D
Level 6	STD 240-163079/23	F0010223.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Ave	5526435 244955244	10887594	29857543	60264746	119125724	5.00 200	10.0	25.0	50.0	100
gamma-BHC (Lindane)	Ave	5178230 220099382	9977096	26905350	54016369	106795557	5.00 200	10.0	25.0	50.0	100
beta-BHC	Ave	2550024 90047655	4680166	11855677	22527735	43684310	5.00 200	10.0	25.0	50.0	100
delta-BHC	Ave	4553213 213137299	9291396	25121731	49522253	101951169	5.00 200	10.0	25.0	50.0	100
Heptachlor	Ave	5468640 220120718	10439790	27679608	55076092	107961395	5.00 200	10.0	25.0	50.0	100
Aldrin	Ave	5249054 215827713	10026184	26979716	53271170	104912571	5.00 200	10.0	25.0	50.0	100
Heptachlor epoxide	Ave	5136006 193756175	9694241	24906132	48464260	95256561	5.00 200	10.0	25.0	50.0	100
gamma-Chlordane	Ave	5043657 204987819	9577679	25286128	49533703	98564815	5.00 200	10.0	25.0	50.0	100
alpha-Chlordane	Ave	5181394 198283451	9673078	25195086	48890973	96078154	5.00 200	10.0	25.0	50.0	100
Endosulfan I	Ave	4865308 183255200	9113037	23789007	45995485	90121845	5.00 200	10.0	25.0	50.0	100
4,4'-DDE	Ave	4545518 199081550	8710248	23903977	47529407	95660243	5.00 200	10.0	25.0	50.0	100
Dieldrin	Ave	4944342 200271283	9373377	24976806	49274155	97977960	5.00 200	10.0	25.0	50.0	100
Endrin	Ave	4613396 186295423	8843568	23192813	45702024	91110811	5.00 200	10.0	25.0	50.0	100
4,4'-DDD	Ave	3657937 155427415	7096368	18908893	37361959	74378783	5.00 200	10.0	25.0	50.0	100
Endosulfan II	Ave	4472497 167570416	8810856	22411484	42827262	82363862	5.00 200	10.0	25.0	50.0	100
4,4'-DDT	Ave	2887196 139243215	5806582	15419965	30684722	61820494	5.00 200	10.0	25.0	50.0	100

FORM VI

GC SEMI VOA INITIAL CALIBRATION DATA

EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-1 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 17:35 Calibration End Date: 01/02/2015 19:23 Calibration ID: 25974

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	3430332 125621235	6682774	16699252	32404021	63215460	5.00 200	10.0	25.0	50.0	100
Methoxychlor	Ave	1899812 69445247	3663422	9225170	16765671	32807636	5.00 200	10.0	25.0	50.0	100
Endosulfan sulfate	Ave	3807686 136925931	7186763	18169840	33924087	66904055	5.00 200	10.0	25.0	50.0	100
Endrin ketone	Ave	4360216 165701398	8385475	21732713	40411618	79578823	5.00 200	10.0	25.0	50.0	100
Tetrachloro-m-xylene	Ave	3572520 135803785	6772590	17459309	34170520	66570268	5.00 200	10.0	25.0	50.0	100
DCB Decachlorobiphenyl	Ave	3498546 114313889	6594879	15981576	29118579	55530169	5.00 200	10.0	25.0	50.0	100

Curve Type Legend:

Ave = Average

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 17:35 Calibration End Date: 01/02/2015 19:23 Calibration ID: 25975

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/18	F0010218.D
Level 2	STD 240-163079/19	F0010219.D
Level 3	STD 240-163079/20	F0010220.D
Level 4	STD 240-163079/21	F0010221.D
Level 5	STD 240-163079/22	F0010222.D
Level 6	STD 240-163079/23	F0010223.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
alpha-BHC	5.051	5.051	5.051	5.051	5.052	5.052					5.023 - 5.083	5.051
gamma-BHC (Lindane)	5.647	5.647	5.647	5.647	5.647	5.647					5.619 - 5.679	5.647
beta-BHC	5.838	5.838	5.837	5.837	5.837	5.837					5.812 - 5.872	5.837
delta-BHC	6.435	6.434	6.434	6.434	6.434	6.433					6.409 - 6.469	6.434
Heptachlor	6.511	6.512	6.512	6.512	6.512	6.512					6.485 - 6.545	6.512
Aldrin	7.284	7.283	7.284	7.284	7.283	7.283					7.258 - 7.318	7.284
Heptachlor epoxide	8.759	8.758	8.759	8.759	8.758	8.759					8.730 - 8.790	8.759
gamma-Chlordane	9.164	9.163	9.161	9.162	9.163	9.162					9.136 - 9.196	9.163
alpha-Chlordane	9.468	9.468	9.468	9.467	9.468	9.468					9.439 - 9.499	9.468
Endosulfan I	9.536	9.538	9.537	9.537	9.537	9.537					9.509 - 9.569	9.537
4,4'-DDE	9.906	9.905	9.906	9.905	9.905	9.906					9.878 - 9.938	9.906
Dieldrin	10.061	10.060	10.060	10.060	10.061	10.060					10.032 - 10.092	10.060
Endrin	10.581	10.581	10.580	10.581	10.581	10.580					10.552 - 10.612	10.581
4,4'-DDD	10.914	10.915	10.914	10.914	10.914	10.912					10.885 - 10.945	10.914
Endosulfan II	10.956	10.954	10.955	10.954	10.954	10.954					10.925 - 10.985	10.955
4,4'-DDT	11.399	11.399	11.398	11.398	11.399	11.397					11.369 - 11.429	11.398
Endrin aldehyde	11.518	11.518	11.518	11.517	11.518	11.517					11.490 - 11.550	11.518
Endosulfan sulfate	11.943	11.944	11.942	11.943	11.943	11.942					11.914 - 11.974	11.943
Methoxychlor	12.473	12.474	12.473	12.473	12.473	12.472					12.444 - 12.504	12.473
Endrin ketone	12.688	12.689	12.688	12.689	12.687	12.687					12.659 - 12.719	12.688
Tetrachloro-m-xylene	4.182	4.182	4.182	4.182	4.182	4.182					4.153 - 4.213	4.182
DCB Decachlorobiphenyl	14.417	14.417	14.416	14.417	14.416	14.417					14.388 - 14.448	14.417

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 17:35 Calibration End Date: 01/02/2015 19:23 Calibration ID: 25975

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/18	F0010218.D
Level 2	STD 240-163079/19	F0010219.D
Level 3	STD 240-163079/20	F0010220.D
Level 4	STD 240-163079/21	F0010221.D
Level 5	STD 240-163079/22	F0010222.D
Level 6	STD 240-163079/23	F0010223.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
alpha-BHC	2115632 2747381	2176854 3001893	2525151	2663319	Lin1	-6192822.7	2925422.93							0.9980		0.9900
gamma-BHC (Lindane)	1963403 2422546	1971293 2637326	2245308	2351183	Lin1	-4871989.0	2569675.65							0.9980		0.9900
beta-BHC	999655 965187	945708 1032969	982776	968372	Ave		982444.558				3.1		10.0			
delta-BHC	1764632 2278867	1793762 2507546	2058308	2164605	Lin1	-5384648.9	2431160.65							0.9970		0.9900
Heptachlor	2060204 2338483	2009073 2480682	2224007	2295034	Ave		2234580.38				7.9		10.0			
Aldrin	1895941 2226731	1856240 2398413	2111385	2163945	Ave		2108775.94				9.7		10.0			
Heptachlor epoxide	1797157 1937319	1748777 2026689	1899442	1914906	Ave		1887381.85				5.3		10.0			
gamma-Chlordane	1797622 1987418	1703611 2149253	1899485	1926976	Ave		1910727.45				8.1		10.0			
alpha-Chlordane	1751960 1908675	1678799 2051113	1856171	1865245	Ave		1851993.87				7.0		10.0			
Endosulfan I	1670485 1759976	1592508 1844689	1742176	1746988	Ave		1726137.11				5.0		10.0			
4,4'-DDE	1532135 1829542	1507269 1995113	1718360	1765641	Lin1	-3446382.7	1940075.56							0.9970		0.9900
Dieldrin	1678041 1900905	1630652 2018202	1811484	1845328	Ave		1814101.87				7.9		10.0			
Endrin	1559013 1762878	1507371 1870791	1685202	1709663	Ave		1682486.35				7.9		10.0			
4,4'-DDD	1258559 1487278	1209185 1604940	1379823	1429896	Ave		1394946.89				10.0		10.0			
Endosulfan II	1633895 1653002	1554893 1729916	1689460	1658886	Ave		1653342.07				3.6		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 17:35 Calibration End Date: 01/02/2015 19:23 Calibration ID: 25975

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3	LVL 4		B	M1	M2								
4,4'-DDT	953457 1197218	967875 1392316	1109390	1115815	Lin1	-3173434.8	1321018.10							0.9920		0.9900
Endrin aldehyde	1140923 1189419	1135711 1227381	1187248	1174418	Ave		1175850.00				2.9		10.0			
Endosulfan sulfate	1247108 1253087	1228462 1354133	1284149	1237645	Ave		1267430.55				3.7		10.0			
Methoxychlor	608635 577514	579040 641851	609755	571131	Ave		597987.679				4.5		10.0			
Endrin ketone	1437198 1492545	1415808 1630332	1515441	1466614	Ave		1492989.60				5.1		10.0			
Tetrachloro-m-xylene	1402516 1486671	1347364 1587342	1464234	1480585	Ave		1461451.97				5.6		10.0			
DCB Decachlorobiphenyl	1184991 1004996	1101382 1062310	1106990	1018669	Ave		1079889.69				6.1		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 17:35 Calibration End Date: 01/02/2015 19:23 Calibration ID: 25975

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 240-163079/18	F0010218.D
Level 2	STD 240-163079/19	F0010219.D
Level 3	STD 240-163079/20	F0010220.D
Level 4	STD 240-163079/21	F0010221.D
Level 5	STD 240-163079/22	F0010222.D
Level 6	STD 240-163079/23	F0010223.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
alpha-BHC	Lin1	10578160 600378500	21768543	63128765	133165928	274738111	5.00 200	10.0	25.0	50.0	100
gamma-BHC (Lindane)	Lin1	9817013 527465170	19712931	56132688	117559127	242254639	5.00 200	10.0	25.0	50.0	100
beta-BHC	Ave	4998275 206593817	9457077	24569397	48418623	96518722	5.00 200	10.0	25.0	50.0	100
delta-BHC	Lin1	8823159 501509278	17937615	51457708	108230256	227886744	5.00 200	10.0	25.0	50.0	100
Heptachlor	Ave	10301019 496136389	20090734	55600166	114751677	233848297	5.00 200	10.0	25.0	50.0	100
Aldrin	Ave	9479707 479682696	18562396	52784621	108197268	222673093	5.00 200	10.0	25.0	50.0	100
Heptachlor epoxide	Ave	8985784 405337792	17487774	47486059	95745316	193731924	5.00 200	10.0	25.0	50.0	100
gamma-Chlordane	Ave	8988112 429850597	17036106	47487132	96348777	198741792	5.00 200	10.0	25.0	50.0	100
alpha-Chlordane	Ave	8759801 410222608	16787992	46404277	93262258	190867455	5.00 200	10.0	25.0	50.0	100
Endosulfan I	Ave	8352423 368937864	15925084	43554395	87349409	175997633	5.00 200	10.0	25.0	50.0	100
4,4'-DDE	Lin1	7660676 399022567	15072685	42959011	88282055	182954180	5.00 200	10.0	25.0	50.0	100
Dieldrin	Ave	8390205 403640324	16306518	45287101	92266387	190090503	5.00 200	10.0	25.0	50.0	100
Endrin	Ave	7795066 374158285	15073705	42130042	85483152	176287826	5.00 200	10.0	25.0	50.0	100
4,4'-DDD	Ave	6292797 320987939	12091848	34495572	71494810	148727835	5.00 200	10.0	25.0	50.0	100
Endosulfan II	Ave	8169473 345983189	15548932	42236512	82944299	165300219	5.00 200	10.0	25.0	50.0	100
4,4'-DDT	Lin1	4767286 278463135	9678747	27734753	55790755	119721774	5.00 200	10.0	25.0	50.0	100

FORM VI
GC SEMI VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 163079

SDG No.:

Instrument ID: A2HP15 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/02/2015 17:35 Calibration End Date: 01/02/2015 19:23 Calibration ID: 25975

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Endrin aldehyde	Ave	5704617 245476183	11357108	29681193	58720911	118941892	5.00 200	10.0	25.0	50.0	100
Endosulfan sulfate	Ave	6235539 270826630	12284619	32103713	61882228	125308734	5.00 200	10.0	25.0	50.0	100
Methoxychlor	Ave	3043174 128370173	5790399	15243881	28556571	57751385	5.00 200	10.0	25.0	50.0	100
Endrin ketone	Ave	7185992 326066333	14158077	37886018	73330707	149254497	5.00 200	10.0	25.0	50.0	100
Tetrachloro-m-xylene	Ave	7012578 317468424	13473638	36605854	74029260	148667094	5.00 200	10.0	25.0	50.0	100
DCB Decachlorobiphenyl	Ave	5924956 212461939	11013823	27674746	50933445	100499623	5.00 200	10.0	25.0	50.0	100

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID (1): PEM 240-163275/5 Instrument ID (1): A2HP15

GC Column (1): CLP-1 ID: 0.53(mm) Date Analyzed (1): 01/06/2015 10:33

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	3.60	100.0
alpha-BHC	4.30	100.0
gamma-BHC (Lindane)	4.69	100.0
beta-BHC	4.83	100.0
4,4'-DDE	8.16	100.0
Endrin	9.06	100.0
4,4'-DDD	9.41	100.0
4,4'-DDT	9.93	100.0
Endrin aldehyde	10.30	100.0
Endrin ketone	11.41	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID (2): PEM 240-163275/5 Instrument ID (2): A2HP15

GC Column (2): CLP-2 ID: 0.53(mm) Date Analyzed (2): 01/06/2015 10:33

ANALYTE	RT	RESOLUTION (%)
Methoxychlor		100.0
Tetrachloro-m-xylene	4.18	100.0
alpha-BHC	5.05	100.0
gamma-BHC (Lindane)	5.65	100.0
beta-BHC	5.84	100.0
4,4'-DDE	9.91	100.0
Endrin	10.58	100.0
4,4'-DDD	10.92	100.0
4,4'-DDT	11.40	100.0
Endrin aldehyde	11.52	100.0
Endrin ketone	12.69	100.0

FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: PEM 240-163275/5 Calibration Date: 01/06/2015 10:33

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010605.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	9.06	41224165	4.32	15	
Endrin aldehyde	10.30	466155			
Endrin ketone	11.41	1394721			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	9.93	58892623	9.45	15	
4,4'-DDD	9.41	4498350			
4,4'-DDE	8.16	1646167			

FORM VII
GC SEMI VOA PERFORMANCE EVALUATION MIXTURE (PEM)

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: PEM 240-163275/5 Calibration Date: 01/06/2015 10:33

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010605.D Conc. Units: ug/L

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
Endrin	10.58	79001430	3.35	15	
Endrin aldehyde	11.52	346430			
Endrin ketone	12.69	2388789			

ANALYTE	RT	RESPONSE	BREAKDOWN (%)	LIMIT	#
4,4'-DDT	11.40	112540160	8.74	15	
4,4'-DDD	10.92	7944346			
4,4'-DDE	9.91	2835532			

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: ICV 240-163079/24 Calibration Date: 01/02/2015 19:45

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010224.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1168279	1184347		25.3	25.0	1.4	20.0
gamma-BHC (Lindane)	Ave	1059725	1059373		25.0	25.0	-0.0	20.0
beta-BHC	Ave	464981	458086		24.6	25.0	-1.5	20.0
delta-BHC	Ave	986716	957912		24.3	25.0	-2.9	20.0
Heptachlor	Ave	1087772	1096257		25.2	25.0	0.8	20.0
Aldrin	Ave	1054218	1064298		25.2	25.0	1.0	20.0
Heptachlor epoxide	Ave	980584	969765		24.7	25.0	-1.1	20.0
gamma-Chlordane	Ave	996534	983454		24.7	25.0	-1.3	20.0
alpha-Chlordane	Ave	990235	980823		24.8	25.0	-1.0	20.0
Endosulfan I	Ave	928888	899136		24.2	25.0	-3.2	20.0
4,4'-DDE	Ave	939814	918180		24.4	25.0	-2.3	20.0
Dieldrin	Ave	981983	986459		25.1	25.0	0.5	20.0
Endrin	Ave	915229	913720		25.0	25.0	-0.2	20.0
4,4'-DDD	Ave	744291	706374		23.7	25.0	-5.1	20.0
Endosulfan II	Ave	865013	877882		25.4	25.0	1.5	20.0
4,4'-DDT	Ave	617169	614166		24.9	25.0	-0.5	20.0
Endrin aldehyde	Ave	655109	626097		23.9	25.0	-4.4	20.0
Methoxychlor	Ave	354321	354870		25.0	25.0	0.2	20.0
Endosulfan sulfate	Ave	706527	693593		24.5	25.0	-1.8	20.0
Endrin ketone	Ave	835404	788464		23.6	25.0	-5.6	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: ICV 240-163079/24 Calibration Date: 01/02/2015 19:45

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010224.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.30	4.27	4.33
gamma-BHC (Lindane)	4.69	4.66	4.72
beta-BHC	4.83	4.80	4.86
delta-BHC	5.06	5.03	5.09
Heptachlor	5.36	5.33	5.39
Aldrin	5.84	5.81	5.87
Heptachlor epoxide	7.14	7.11	7.17
gamma-Chlordane	7.46	7.44	7.50
alpha-Chlordane	7.80	7.77	7.83
Endosulfan I	8.06	8.03	8.09
4,4'-DDE	8.16	8.13	8.19
Dieldrin	8.61	8.58	8.64
Endrin	9.06	9.03	9.09
4,4'-DDD	9.41	9.38	9.44
Endosulfan II	9.50	9.47	9.53
4,4'-DDT	9.92	9.89	9.95
Endrin aldehyde	10.29	10.26	10.32
Methoxychlor	10.86	10.83	10.89
Endosulfan sulfate	11.00	10.98	11.04
Endrin ketone	11.41	11.38	11.44

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: ICV 240-163079/24 Calibration Date: 01/02/2015 19:45

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010224.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		2517372		23.6	25.0	-5.5	20.0
gamma-BHC (Lindane)	Lin1		2215791		23.5	25.0	-6.2	20.0
beta-BHC	Ave	982445	946737		24.1	25.0	-3.6	20.0
delta-BHC	Lin1		1972613		22.5	25.0	-10.0	20.0
Heptachlor	Ave	2234580	2199811		24.6	25.0	-1.6	20.0
Aldrin	Ave	2108776	2087110		24.7	25.0	-1.0	20.0
Heptachlor epoxide	Ave	1887382	1853047		24.5	25.0	-1.8	20.0
gamma-Chlordane	Ave	1910727	1871026		24.5	25.0	-2.1	20.0
alpha-Chlordane	Ave	1851994	1814899		24.5	25.0	-2.0	20.0
Endosulfan I	Ave	1726137	1660396		24.0	25.0	-3.8	20.0
4,4'-DDE	Lin1		1667310		23.3	25.0	-7.0	20.0
Dieldrin	Ave	1814102	1794163		24.7	25.0	-1.1	20.0
Endrin	Ave	1682486	1656262		24.6	25.0	-1.6	20.0
4,4'-DDD	Ave	1394947	1266274		22.7	25.0	-9.2	20.0
Endosulfan II	Ave	1653342	1669421		25.2	25.0	1.0	20.0
4,4'-DDT	Lin1		1077953		22.8	25.0	-8.8	20.0
Endrin aldehyde	Ave	1175850	1102973		23.5	25.0	-6.2	20.0
Endosulfan sulfate	Ave	1267431	1222730		24.1	25.0	-3.5	20.0
Methoxychlor	Ave	597988	591127		24.7	25.0	-1.1	20.0
Endrin ketone	Ave	1492990	1383237		23.2	25.0	-7.4	20.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: ICV 240-163079/24 Calibration Date: 01/02/2015 19:45

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010224.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.05	5.02	5.08
gamma-BHC (Lindane)	5.65	5.62	5.68
beta-BHC	5.84	5.81	5.87
delta-BHC	6.44	6.40	6.46
Heptachlor	6.51	6.48	6.54
Aldrin	7.28	7.25	7.31
Heptachlor epoxide	8.76	8.73	8.79
gamma-Chlordane	9.16	9.13	9.19
alpha-Chlordane	9.47	9.44	9.50
Endosulfan I	9.54	9.51	9.57
4,4'-DDE	9.91	9.88	9.94
Dieldrin	10.06	10.03	10.09
Endrin	10.58	10.55	10.61
4,4'-DDD	10.91	10.88	10.94
Endosulfan II	10.95	10.93	10.99
4,4'-DDT	11.40	11.37	11.43
Endrin aldehyde	11.52	11.49	11.55
Endosulfan sulfate	11.94	11.91	11.97
Methoxychlor	12.47	12.44	12.50
Endrin ketone	12.69	12.66	12.72

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/6 Calibration Date: 01/06/2015 10:55

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 12:52

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 14:19

Lab File ID: F0010606.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	27962	26798		958	1000	-4.2	15.0
Toxaphene Peak 2	Ave	25468	23633		928	1000	-7.2	15.0
Toxaphene Peak 3	Ave	14958	14158		947	1000	-5.3	15.0
Toxaphene Peak 4	Ave	21039	19379		921	1000	-7.9	15.0
Toxaphene Peak 5	Ave	18963	16478		869	1000	-13.1	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/6 Calibration Date: 01/06/2015 10:55

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 12:52

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 14:19

Lab File ID: F0010606.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.71	9.68	9.74
Toxaphene Peak 2	10.17	10.14	10.20
Toxaphene Peak 3	10.48	10.45	10.51
Toxaphene Peak 4	10.82	10.79	10.85
Toxaphene Peak 5	10.93	10.90	10.96

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/6 Calibration Date: 01/06/2015 10:55

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 12:52

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 14:19

Lab File ID: F0010606.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	68921	66340		963	1000	-3.7	15.0
Toxaphene Peak 2	Ave	66709	63795		956	1000	-4.4	15.0
Toxaphene Peak 3	Ave	44162	41124		931	1000	-6.9	15.0
Toxaphene Peak 4	Lin1		47695		926	1000	-7.4	15.0
Toxaphene Peak 5	Lin1		15764		934	1000	-6.6	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/6 Calibration Date: 01/06/2015 10:55

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 12:52

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 14:19

Lab File ID: F0010606.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.93	10.90	10.96
Toxaphene Peak 2	11.11	11.08	11.14
Toxaphene Peak 3	11.53	11.50	11.56
Toxaphene Peak 4	12.27	12.24	12.30
Toxaphene Peak 5	12.36	12.33	12.39

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/7 Calibration Date: 01/06/2015 11:16

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 15:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 16:30

Lab File ID: F0010607.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	36840	36442		98.9	100	-1.1	15.0
Chlordane (technical) Peak 2	Lin1		42899		101	100	1.3	15.0
Chlordane (technical) Peak 3	Ave	144074	138636		96.2	100	-3.8	15.0
Chlordane (technical) Peak 4	Ave	217823	214149		98.3	100	-1.7	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/7 Calibration Date: 01/06/2015 11:16

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 15:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 16:30

Lab File ID: F0010607.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	5.24	5.21	5.27
Chlordane (technical) Peak 2	6.15	6.12	6.18
Chlordane (technical) Peak 3	7.47	7.44	7.50
Chlordane (technical) Peak 4	7.80	7.77	7.83

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/7 Calibration Date: 01/06/2015 11:16

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 15:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 16:30

Lab File ID: F0010607.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	70102	70568		101	100	0.7	15.0
Chlordane (technical) Peak 2	Lin1		77650		103	100	3.1	15.0
Chlordane (technical) Peak 3	Ave	250396	253210		101	100	1.1	15.0
Chlordane (technical) Peak 4	Ave	226909	226898		100	100	-0.0	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/7 Calibration Date: 01/06/2015 11:16

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 15:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 16:30

Lab File ID: F0010607.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	6.20	6.17	6.23
Chlordane (technical) Peak 2	7.79	7.76	7.82
Chlordane (technical) Peak 3	9.17	9.14	9.20
Chlordane (technical) Peak 4	9.47	9.44	9.50

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/8 Calibration Date: 01/06/2015 11:38

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010608.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1168279	1223082		26.2	25.0	4.7	15.0
gamma-BHC (Lindane)	Ave	1059725	1104557		26.1	25.0	4.2	15.0
beta-BHC	Ave	464981	481211		25.9	25.0	3.5	15.0
delta-BHC	Ave	986716	1002989		25.4	25.0	1.6	15.0
Heptachlor	Ave	1087772	1149712		26.4	25.0	5.7	15.0
Aldrin	Ave	1054218	1097785		26.0	25.0	4.1	15.0
Heptachlor epoxide	Ave	980584	1012804		25.8	25.0	3.3	15.0
gamma-Chlordane	Ave	996534	1018183		25.5	25.0	2.2	15.0
alpha-Chlordane	Ave	990235	1019996		25.8	25.0	3.0	15.0
Endosulfan I	Ave	928888	961399		25.9	25.0	3.5	15.0
4,4'-DDE	Ave	939814	967251		25.7	25.0	2.9	15.0
Dieldrin	Ave	981983	1011669		25.8	25.0	3.0	15.0
Endrin	Ave	915229	936409		25.6	25.0	2.3	15.0
4,4'-DDD	Ave	744291	738737		24.8	25.0	-0.7	15.0
Endosulfan II	Ave	865013	910385		26.3	25.0	5.2	15.0
4,4'-DDT	Ave	617169	601092		24.3	25.0	-2.6	15.0
Endrin aldehyde	Ave	655109	659808		25.2	25.0	0.7	15.0
Methoxychlor	Ave	354321	345371		24.4	25.0	-2.5	15.0
Endosulfan sulfate	Ave	706527	686355		24.3	25.0	-2.9	15.0
Endrin ketone	Ave	835404	840026		25.1	25.0	0.6	15.0
Tetrachloro-m-xylene	Ave	686378	714974		26.0	25.0	4.2	15.0
DCB Decachlorobiphenyl	Ave	617950	626233		25.3	25.0	1.3	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/8 Calibration Date: 01/06/2015 11:38

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010608.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.30	4.27	4.33
gamma-BHC (Lindane)	4.69	4.66	4.72
beta-BHC	4.83	4.80	4.86
delta-BHC	5.06	5.03	5.09
Heptachlor	5.36	5.33	5.39
Aldrin	5.84	5.81	5.87
Heptachlor epoxide	7.15	7.12	7.18
gamma-Chlordane	7.47	7.44	7.50
alpha-Chlordane	7.80	7.77	7.83
Endosulfan I	8.07	8.04	8.10
4,4'-DDE	8.16	8.13	8.19
Dieldrin	8.61	8.58	8.64
Endrin	9.06	9.03	9.09
4,4'-DDD	9.41	9.38	9.44
Endosulfan II	9.50	9.47	9.53
4,4'-DDT	9.93	9.89	9.95
Endrin aldehyde	10.29	10.26	10.32
Methoxychlor	10.87	10.84	10.90
Endosulfan sulfate	11.01	10.98	11.04
Endrin ketone	11.41	11.38	11.44
Tetrachloro-m-xylene	3.60	3.57	3.63
DCB Decachlorobiphenyl	13.02	12.99	13.05

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/8 Calibration Date: 01/06/2015 11:38

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010608.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		2655821		24.8	25.0	-0.7	15.0
gamma-BHC (Lindane)	Lin1		2342181		24.7	25.0	-1.3	15.0
beta-BHC	Ave	982445	1008196		25.7	25.0	2.6	15.0
delta-BHC	Lin1		2034469		23.1	25.0	-7.5	15.0
Heptachlor	Ave	2234580	2354738		26.3	25.0	5.4	15.0
Aldrin	Ave	2108776	2187692		25.9	25.0	3.7	15.0
Heptachlor epoxide	Ave	1887382	1979162		26.2	25.0	4.9	15.0
gamma-Chlordane	Ave	1910727	1987214		26.0	25.0	4.0	15.0
alpha-Chlordane	Ave	1851994	1916167		25.9	25.0	3.5	15.0
Endosulfan I	Ave	1726137	1824309		26.4	25.0	5.7	15.0
4,4'-DDE	Lin1		1801616		25.0	25.0	-0.0	15.0
Dieldrin	Ave	1814102	1903405		26.2	25.0	4.9	15.0
Endrin	Ave	1682486	1748598		26.0	25.0	3.9	15.0
4,4'-DDD	Ave	1394947	1397386		25.0	25.0	0.2	15.0
Endosulfan II	Ave	1653342	1744980		26.4	25.0	5.5	15.0
4,4'-DDT	Lin1		1119334		23.6	25.0	-5.7	15.0
Endrin aldehyde	Ave	1175850	1215793		25.8	25.0	3.4	15.0
Endosulfan sulfate	Ave	1267431	1261235		24.9	25.0	-0.5	15.0
Methoxychlor	Ave	597988	600690		25.1	25.0	0.5	15.0
Endrin ketone	Ave	1492990	1514577		25.4	25.0	1.4	15.0
Tetrachloro-m-xylene	Ave	1461452	1522963		26.1	25.0	4.2	15.0
DCB Decachlorobiphenyl	Ave	1079890	1095475		25.4	25.0	1.4	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/8 Calibration Date: 01/06/2015 11:38

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010608.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.05	5.02	5.08
gamma-BHC (Lindane)	5.65	5.62	5.68
beta-BHC	5.84	5.81	5.87
delta-BHC	6.44	6.41	6.47
Heptachlor	6.52	6.49	6.55
Aldrin	7.29	7.26	7.32
Heptachlor epoxide	8.76	8.73	8.79
gamma-Chlordane	9.17	9.14	9.20
alpha-Chlordane	9.47	9.44	9.50
Endosulfan I	9.54	9.51	9.57
4,4'-DDE	9.91	9.88	9.94
Dieldrin	10.06	10.03	10.09
Endrin	10.58	10.55	10.61
4,4'-DDD	10.92	10.89	10.95
Endosulfan II	10.96	10.93	10.99
4,4'-DDT	11.40	11.37	11.43
Endrin aldehyde	11.52	11.49	11.55
Endosulfan sulfate	11.95	11.92	11.98
Methoxychlor	12.48	12.44	12.50
Endrin ketone	12.69	12.66	12.72
Tetrachloro-m-xylene	4.19	4.15	4.21
DCB Decachlorobiphenyl	14.42	14.39	14.45

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/16 Calibration Date: 01/06/2015 14:32

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010616.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1168279	1243032		26.6	25.0	6.4	15.0
gamma-BHC (Lindane)	Ave	1059725	1121146		26.4	25.0	5.8	15.0
beta-BHC	Ave	464981	480822		25.9	25.0	3.4	15.0
delta-BHC	Ave	986716	993436		25.2	25.0	0.7	15.0
Heptachlor	Ave	1087772	1159050		26.6	25.0	6.6	15.0
Aldrin	Ave	1054218	1111675		26.4	25.0	5.5	15.0
Heptachlor epoxide	Ave	980584	1030691		26.3	25.0	5.1	15.0
gamma-Chlordane	Ave	996534	1034527		26.0	25.0	3.8	15.0
alpha-Chlordane	Ave	990235	1031648		26.0	25.0	4.2	15.0
Endosulfan I	Ave	928888	978434		26.3	25.0	5.3	15.0
4,4'-DDE	Ave	939814	989781		26.3	25.0	5.3	15.0
Dieldrin	Ave	981983	1033462		26.3	25.0	5.2	15.0
Endrin	Ave	915229	953322		26.0	25.0	4.2	15.0
4,4'-DDD	Ave	744291	747606		25.1	25.0	0.4	15.0
Endosulfan II	Ave	865013	900186		26.0	25.0	4.1	15.0
4,4'-DDT	Ave	617169	608285		24.6	25.0	-1.4	15.0
Endrin aldehyde	Ave	655109	666693		25.4	25.0	1.8	15.0
Methoxychlor	Ave	354321	350879		24.8	25.0	-1.0	15.0
Endosulfan sulfate	Ave	706527	689281		24.4	25.0	-2.4	15.0
Endrin ketone	Ave	835404	833164		24.9	25.0	-0.3	15.0
Tetrachloro-m-xylene	Ave	686378	723555		26.4	25.0	5.4	15.0
DCB Decachlorobiphenyl	Ave	617950	610768		24.7	25.0	-1.2	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/16 Calibration Date: 01/06/2015 14:32

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010616.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.30	4.27	4.33
gamma-BHC (Lindane)	4.69	4.66	4.72
beta-BHC	4.83	4.80	4.86
delta-BHC	5.06	5.03	5.09
Heptachlor	5.36	5.33	5.39
Aldrin	5.84	5.81	5.87
Heptachlor epoxide	7.15	7.12	7.18
gamma-Chlordane	7.47	7.44	7.50
alpha-Chlordane	7.80	7.77	7.83
Endosulfan I	8.07	8.04	8.10
4,4'-DDE	8.16	8.13	8.19
Dieldrin	8.61	8.58	8.64
Endrin	9.06	9.03	9.09
4,4'-DDD	9.41	9.38	9.44
Endosulfan II	9.51	9.48	9.54
4,4'-DDT	9.93	9.90	9.96
Endrin aldehyde	10.29	10.26	10.32
Methoxychlor	10.87	10.84	10.90
Endosulfan sulfate	11.01	10.98	11.04
Endrin ketone	11.41	11.38	11.44
Tetrachloro-m-xylene	3.60	3.57	3.63
DCB Decachlorobiphenyl	13.02	12.99	13.05

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/16 Calibration Date: 01/06/2015 14:32

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010616.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		2689654		25.1	25.0	0.4	15.0
gamma-BHC (Lindane)	Lin1		2382408		25.1	25.0	0.3	15.0
beta-BHC	Ave	982445	1018591		25.9	25.0	3.7	15.0
delta-BHC	Lin1		2043787		23.2	25.0	-7.1	15.0
Heptachlor	Ave	2234580	2370699		26.5	25.0	6.1	15.0
Aldrin	Ave	2108776	2219258		26.3	25.0	5.2	15.0
Heptachlor epoxide	Ave	1887382	1999775		26.5	25.0	6.0	15.0
gamma-Chlordane	Ave	1910727	1988466		26.0	25.0	4.1	15.0
alpha-Chlordane	Ave	1851994	1927645		26.0	25.0	4.1	15.0
Endosulfan I	Ave	1726137	1828152		26.5	25.0	5.9	15.0
4,4'-DDE	Lin1		1807165		25.1	25.0	0.3	15.0
Dieldrin	Ave	1814102	1902174		26.2	25.0	4.9	15.0
Endrin	Ave	1682486	1761100		26.2	25.0	4.7	15.0
4,4'-DDD	Ave	1394947	1389192		24.9	25.0	-0.4	15.0
Endosulfan II	Ave	1653342	1763220		26.7	25.0	6.6	15.0
4,4'-DDT	Lin1		1119281		23.6	25.0	-5.7	15.0
Endrin aldehyde	Ave	1175850	1221922		26.0	25.0	3.9	15.0
Endosulfan sulfate	Ave	1267431	1238986		24.4	25.0	-2.2	15.0
Methoxychlor	Ave	597988	592179		24.8	25.0	-1.0	15.0
Endrin ketone	Ave	1492990	1500213		25.1	25.0	0.5	15.0
Tetrachloro-m-xylene	Ave	1461452	1544769		26.4	25.0	5.7	15.0
DCB Decachlorobiphenyl	Ave	1079890	1079047		25.0	25.0	-0.0	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/16 Calibration Date: 01/06/2015 14:32

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010616.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.05	5.02	5.08
gamma-BHC (Lindane)	5.65	5.62	5.68
beta-BHC	5.84	5.81	5.87
delta-BHC	6.44	6.41	6.47
Heptachlor	6.52	6.49	6.55
Aldrin	7.29	7.26	7.32
Heptachlor epoxide	8.76	8.73	8.79
gamma-Chlordane	9.17	9.14	9.20
alpha-Chlordane	9.47	9.44	9.50
Endosulfan I	9.54	9.51	9.57
4,4'-DDE	9.91	9.88	9.94
Dieldrin	10.06	10.03	10.09
Endrin	10.58	10.55	10.61
4,4'-DDD	10.92	10.89	10.95
Endosulfan II	10.96	10.93	10.99
4,4'-DDT	11.40	11.37	11.43
Endrin aldehyde	11.52	11.49	11.55
Endosulfan sulfate	11.95	11.92	11.98
Methoxychlor	12.48	12.45	12.51
Endrin ketone	12.69	12.66	12.72
Tetrachloro-m-xylene	4.18	4.15	4.21
DCB Decachlorobiphenyl	14.42	14.39	14.45

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/22 Calibration Date: 01/06/2015 16:43

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 12:52

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 14:19

Lab File ID: F0010622.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	27962	30339		1090	1000	8.5	15.0
Toxaphene Peak 2	Ave	25468	26257		1030	1000	3.1	15.0
Toxaphene Peak 3	Ave	14958	17480		1170	1000	16.9*	15.0
Toxaphene Peak 4	Ave	21039	23952		1140	1000	13.8	15.0
Toxaphene Peak 5	Ave	18963	23139		1220	1000	22.0*	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/22 Calibration Date: 01/06/2015 16:43

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 12:52

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 14:19

Lab File ID: F0010622.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	9.71	9.68	9.74
Toxaphene Peak 2	10.17	10.14	10.20
Toxaphene Peak 3	10.48	10.45	10.51
Toxaphene Peak 4	10.82	10.79	10.85
Toxaphene Peak 5	10.93	10.90	10.96

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/22 Calibration Date: 01/06/2015 16:43

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 12:52

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 14:19

Lab File ID: F0010622.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toxaphene Peak 1	Ave	68921	74449		1080	1000	8.0	15.0
Toxaphene Peak 2	Ave	66709	72472		1090	1000	8.6	15.0
Toxaphene Peak 3	Ave	44162	48213		1090	1000	9.2	15.0
Toxaphene Peak 4	Lin1		56936		1090	1000	9.4	15.0
Toxaphene Peak 5	Lin1		18409		1080	1000	8.0	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/22 Calibration Date: 01/06/2015 16:43

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 12:52

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 14:19

Lab File ID: F0010622.D

Analyte	RT	RT WINDOW	
		FROM	TO
Toxaphene Peak 1	10.93	10.90	10.96
Toxaphene Peak 2	11.10	11.07	11.13
Toxaphene Peak 3	11.53	11.50	11.56
Toxaphene Peak 4	12.27	12.24	12.30
Toxaphene Peak 5	12.36	12.33	12.39

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/23 Calibration Date: 01/06/2015 17:05

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 15:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 16:30

Lab File ID: F0010623.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	36840	38262		104	100	3.9	15.0
Chlordane (technical) Peak 2	Lin1		44999		107	100	6.7	15.0
Chlordane (technical) Peak 3	Ave	144074	150558		105	100	4.5	15.0
Chlordane (technical) Peak 4	Ave	217823	231608		106	100	6.3	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/23 Calibration Date: 01/06/2015 17:05

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 15:03

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 16:30

Lab File ID: F0010623.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	5.24	5.21	5.27
Chlordane (technical) Peak 2	6.15	6.12	6.18
Chlordane (technical) Peak 3	7.47	7.44	7.50
Chlordane (technical) Peak 4	7.80	7.77	7.83

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/23 Calibration Date: 01/06/2015 17:05

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 15:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 16:30

Lab File ID: F0010623.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlordane (technical) Peak 1	Ave	70102	70532		101	100	0.6	15.0
Chlordane (technical) Peak 2	Lin1		81824		109	100	9.3	15.0
Chlordane (technical) Peak 3	Ave	250396	264153		105	100	5.5	15.0
Chlordane (technical) Peak 4	Ave	226909	240304		106	100	5.9	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/23 Calibration Date: 01/06/2015 17:05

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 15:03

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 16:30

Lab File ID: F0010623.D

Analyte	RT	RT WINDOW	
		FROM	TO
Chlordane (technical) Peak 1	6.20	6.17	6.23
Chlordane (technical) Peak 2	7.79	7.76	7.82
Chlordane (technical) Peak 3	9.16	9.13	9.19
Chlordane (technical) Peak 4	9.47	9.44	9.50

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/24 Calibration Date: 01/06/2015 17:26

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010624.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Ave	1168279	1275337		27.3	25.0	9.2	15.0
gamma-BHC (Lindane)	Ave	1059725	1143619		27.0	25.0	7.9	15.0
beta-BHC	Ave	464981	487437		26.2	25.0	4.8	15.0
delta-BHC	Ave	986716	1004607		25.5	25.0	1.8	15.0
Heptachlor	Ave	1087772	1184402		27.2	25.0	8.9	15.0
Aldrin	Ave	1054218	1148914		27.2	25.0	9.0	15.0
Heptachlor epoxide	Ave	980584	1063101		27.1	25.0	8.4	15.0
gamma-Chlordane	Ave	996534	1075325		27.0	25.0	7.9	15.0
alpha-Chlordane	Ave	990235	1071849		27.1	25.0	8.2	15.0
Endosulfan I	Ave	928888	1006492		27.1	25.0	8.4	15.0
4,4'-DDE	Ave	939814	1014000		27.0	25.0	7.9	15.0
Dieldrin	Ave	981983	1065191		27.1	25.0	8.5	15.0
Endrin	Ave	915229	990700		27.1	25.0	8.2	15.0
4,4'-DDD	Ave	744291	768954		25.8	25.0	3.3	15.0
Endosulfan II	Ave	865013	954851		27.6	25.0	10.4	15.0
4,4'-DDT	Ave	617169	648413		26.3	25.0	5.1	15.0
Endrin aldehyde	Ave	655109	716133		27.3	25.0	9.3	15.0
Methoxychlor	Ave	354321	383944		27.1	25.0	8.4	15.0
Endosulfan sulfate	Ave	706527	754502		26.7	25.0	6.8	15.0
Endrin ketone	Ave	835404	919168		27.5	25.0	10.0	15.0
Tetrachloro-m-xylene	Ave	686378	743383		27.1	25.0	8.3	15.0
DCB Decachlorobiphenyl	Ave	617950	661380		26.8	25.0	7.0	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/24 Calibration Date: 01/06/2015 17:26

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010624.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	4.30	4.27	4.33
gamma-BHC (Lindane)	4.69	4.66	4.72
beta-BHC	4.83	4.80	4.86
delta-BHC	5.06	5.03	5.09
Heptachlor	5.36	5.33	5.39
Aldrin	5.84	5.81	5.87
Heptachlor epoxide	7.14	7.11	7.17
gamma-Chlordane	7.47	7.44	7.50
alpha-Chlordane	7.80	7.77	7.83
Endosulfan I	8.07	8.04	8.10
4,4'-DDE	8.16	8.13	8.19
Dieldrin	8.61	8.58	8.64
Endrin	9.06	9.03	9.09
4,4'-DDD	9.41	9.38	9.44
Endosulfan II	9.50	9.47	9.53
4,4'-DDT	9.92	9.89	9.95
Endrin aldehyde	10.29	10.26	10.32
Methoxychlor	10.87	10.84	10.90
Endosulfan sulfate	11.01	10.98	11.04
Endrin ketone	11.41	11.38	11.44
Tetrachloro-m-xylene	3.60	3.57	3.63
DCB Decachlorobiphenyl	13.02	12.99	13.05

FORM VII
GC SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/24 Calibration Date: 01/06/2015 17:26

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010624.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
alpha-BHC	Lin1		2777187		25.9	25.0	3.4	15.0
gamma-BHC (Lindane)	Lin1		2474468		26.0	25.0	3.9	15.0
beta-BHC	Ave	982445	1067303		27.2	25.0	8.6	15.0
delta-BHC	Lin1		2160357		24.4	25.0	-2.3	15.0
Heptachlor	Ave	2234580	2472152		27.7	25.0	10.6	15.0
Aldrin	Ave	2108776	2299830		27.3	25.0	9.1	15.0
Heptachlor epoxide	Ave	1887382	2076825		27.5	25.0	10.0	15.0
gamma-Chlordane	Ave	1910727	2085550		27.3	25.0	9.1	15.0
alpha-Chlordane	Ave	1851994	2007325		27.1	25.0	8.4	15.0
Endosulfan I	Ave	1726137	1901271		27.5	25.0	10.1	15.0
4,4'-DDE	Lin1		1871659		25.9	25.0	3.6	15.0
Dieldrin	Ave	1814102	1982008		27.3	25.0	9.3	15.0
Endrin	Ave	1682486	1834761		27.3	25.0	9.1	15.0
4,4'-DDD	Ave	1394947	1417257		25.4	25.0	1.6	15.0
Endosulfan II	Ave	1653342	1894666		28.6	25.0	14.6	15.0
4,4'-DDT	Lin1		1207559		25.3	25.0	1.0	15.0
Endrin aldehyde	Ave	1175850	1294910		27.5	25.0	10.1	15.0
Endosulfan sulfate	Ave	1267431	1350259		26.6	25.0	6.5	15.0
Methoxychlor	Ave	597988	641016		26.8	25.0	7.2	15.0
Endrin ketone	Ave	1492990	1639564		27.5	25.0	9.8	15.0
Tetrachloro-m-xylene	Ave	1461452	1593744		27.3	25.0	9.1	15.0
DCB Decachlorobiphenyl	Ave	1079890	1170457		27.1	25.0	8.4	15.0

FORM VII
GC SEMI VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163275/24 Calibration Date: 01/06/2015 17:26

Instrument ID: A2HP15 Calib Start Date: 01/02/2015 17:35

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 01/02/2015 19:23

Lab File ID: F0010624.D

Analyte	RT	RT WINDOW	
		FROM	TO
alpha-BHC	5.05	5.02	5.08
gamma-BHC (Lindane)	5.65	5.62	5.68
beta-BHC	5.84	5.81	5.87
delta-BHC	6.44	6.41	6.47
Heptachlor	6.52	6.49	6.55
Aldrin	7.29	7.26	7.32
Heptachlor epoxide	8.76	8.73	8.79
gamma-Chlordane	9.16	9.13	9.19
alpha-Chlordane	9.47	9.44	9.50
Endosulfan I	9.54	9.51	9.57
4,4'-DDE	9.91	9.88	9.94
Dieldrin	10.06	10.03	10.09
Endrin	10.58	10.55	10.61
4,4'-DDD	10.92	10.89	10.95
Endosulfan II	10.96	10.93	10.99
4,4'-DDT	11.40	11.37	11.43
Endrin aldehyde	11.52	11.49	11.55
Endosulfan sulfate	11.94	11.91	11.97
Methoxychlor	12.47	12.44	12.50
Endrin ketone	12.69	12.66	12.72
Tetrachloro-m-xylene	4.18	4.15	4.21
DCB Decachlorobiphenyl	14.42	14.39	14.45

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-163139/4-A

Matrix: Water | Lab File ID: F0010620.D

Analysis Method: 608 | Date Collected:

Extraction Method: 608 | Date Extracted: 01/05/2015 06:51

Sample wt/vol: 1000(mL) | Date Analyzed: 01/06/2015 15:59

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 163275 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	0.013	U	0.050	0.013
319-84-6	alpha-BHC	0.014	U	0.050	0.014
319-85-7	beta-BHC	0.013	U	0.050	0.013
319-86-8	delta-BHC	0.029	U	0.050	0.029
58-89-9	gamma-BHC (Lindane)	0.012	U	0.050	0.012
57-74-9	Chlordane (technical)	0.033	U	0.50	0.033
STL00379	Chlordane (technical) Peak 1	0.033	U	0.50	0.033
STL00380	Chlordane (technical) Peak 2	0.033	U	0.50	0.033
STL00084	Chlordane (technical) Peak 3	0.033	U	0.50	0.033
STL00065	Chlordane (technical) Peak 4	0.033	U	0.50	0.033
72-54-8	4,4'-DDD	0.018	U	0.050	0.018
72-55-9	4,4'-DDE	0.0090	U	0.050	0.0090
50-29-3	4,4'-DDT	0.014	U	0.050	0.014
60-57-1	Dieldrin	0.013	U	0.050	0.013
959-98-8	Endosulfan I	0.016	U	0.050	0.016
33213-65-9	Endosulfan II	0.015	U	0.050	0.015
1031-07-8	Endosulfan sulfate	0.011	U	0.050	0.011
72-20-8	Endrin	0.012	U	0.050	0.012
7421-93-4	Endrin aldehyde	0.0080	U	0.050	0.0080
76-44-8	Heptachlor	0.0050	U	0.050	0.0050
1024-57-3	Heptachlor epoxide	0.014	U	0.050	0.014
8001-35-2	Toxaphene	0.20	U	2.0	0.20
STL00100	Toxaphene Peak 1	0.20	U	2.0	0.20
STL00109	Toxaphene Peak 2	0.20	U	2.0	0.20
STL00220	Toxaphene Peak 3	0.20	U	2.0	0.20
STL00083	Toxaphene Peak 4	0.20	U	2.0	0.20
STL00051	Toxaphene Peak 5	0.20	U	2.0	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	67		10-151
877-09-8	Tetrachloro-m-xylene	95		10-151

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-163139/4-A

Matrix: Water Lab File ID: F0010620.D

Analysis Method: 608 Date Collected:

Extraction Method: 608 Date Extracted: 01/05/2015 06:51

Sample wt/vol: 1000(mL) Date Analyzed: 01/06/2015 15:59

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 163275 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	69		10-151
877-09-8	Tetrachloro-m-xylene	124		10-151

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-163139/5-A

Matrix: Water | Lab File ID: F0010621.D

Analysis Method: 608 | Date Collected:

Extraction Method: 608 | Date Extracted: 01/05/2015 06:51

Sample wt/vol: 1000(mL) | Date Analyzed: 01/06/2015 16:21

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-1 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 163275 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
309-00-2	Aldrin	0.388		0.050	0.013
319-84-6	alpha-BHC	0.425		0.050	0.014
319-85-7	beta-BHC	0.389		0.050	0.013
319-86-8	delta-BHC	0.412		0.050	0.029
58-89-9	gamma-BHC (Lindane)	0.419		0.050	0.012
72-54-8	4,4'-DDD	0.413		0.050	0.018
72-55-9	4,4'-DDE	0.421		0.050	0.0090
50-29-3	4,4'-DDT	0.482		0.050	0.014
60-57-1	Dieldrin	0.428		0.050	0.013
959-98-8	Endosulfan I	0.286		0.050	0.016
33213-65-9	Endosulfan II	0.330		0.050	0.015
1031-07-8	Endosulfan sulfate	0.397		0.050	0.011
72-20-8	Endrin	0.427		0.050	0.012
7421-93-4	Endrin aldehyde	0.384		0.050	0.0080
76-44-8	Heptachlor	0.426		0.050	0.0050
1024-57-3	Heptachlor epoxide	0.412		0.050	0.014

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	83		10-151
877-09-8	Tetrachloro-m-xylene	93		10-151

FORM I
GC SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-163139/5-A

Matrix: Water Lab File ID: F0010621.D

Analysis Method: 608 Date Collected:

Extraction Method: 608 Date Extracted: 01/05/2015 06:51

Sample wt/vol: 1000(mL) Date Analyzed: 01/06/2015 16:21

Con. Extract Vol.: 5(mL) Dilution Factor: 1

Injection Volume: 1(uL) GC Column: CLP-2 ID: 0.53(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 163275 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	80		10-151
877-09-8	Tetrachloro-m-xylene	95		10-151

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP15 Start Date: 01/02/2015 12:52

Analysis Batch Number: 163079 End Date: 01/02/2015 23:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 240-163079/5 IC		01/02/2015 12:52	1	F0010205.D	CLP-1 0.53(mm)
STD 240-163079/5 IC		01/02/2015 12:52	1	F0010205.D	CLP-2 0.53(mm)
STD 240-163079/6 IC		01/02/2015 13:14	1	F0010206.D	CLP-1 0.53(mm)
STD 240-163079/6 IC		01/02/2015 13:14	1	F0010206.D	CLP-2 0.53(mm)
STD 240-163079/7 ICRT		01/02/2015 13:36	1	F0010207.D	CLP-1 0.53(mm)
STD 240-163079/7 ICRT		01/02/2015 13:36	1	F0010207.D	CLP-2 0.53(mm)
STD 240-163079/8 IC		01/02/2015 13:58	1	F0010208.D	CLP-1 0.53(mm)
STD 240-163079/8 IC		01/02/2015 13:58	1	F0010208.D	CLP-2 0.53(mm)
STD 240-163079/9 IC		01/02/2015 14:19	1	F0010209.D	CLP-1 0.53(mm)
STD 240-163079/9 IC		01/02/2015 14:19	1	F0010209.D	CLP-2 0.53(mm)
ICV 240-163079/10		01/02/2015 14:41	1		CLP-1 0.53(mm)
ICV 240-163079/10		01/02/2015 14:41	1		CLP-2 0.53(mm)
STD 240-163079/11 IC		01/02/2015 15:03	1	F0010211.D	CLP-1 0.53(mm)
STD 240-163079/11 IC		01/02/2015 15:03	1	F0010211.D	CLP-2 0.53(mm)
STD 240-163079/12 IC		01/02/2015 15:24	1	F0010212.D	CLP-1 0.53(mm)
STD 240-163079/12 IC		01/02/2015 15:24	1	F0010212.D	CLP-2 0.53(mm)
STD 240-163079/13 ICRT		01/02/2015 15:46	1	F0010213.D	CLP-1 0.53(mm)
STD 240-163079/13 ICRT		01/02/2015 15:46	1	F0010213.D	CLP-2 0.53(mm)
STD 240-163079/14 IC		01/02/2015 16:08	1	F0010214.D	CLP-1 0.53(mm)
STD 240-163079/14 IC		01/02/2015 16:08	1	F0010214.D	CLP-2 0.53(mm)
STD 240-163079/15 IC		01/02/2015 16:30	1	F0010215.D	CLP-1 0.53(mm)
STD 240-163079/15 IC		01/02/2015 16:30	1	F0010215.D	CLP-2 0.53(mm)
ICV 240-163079/16		01/02/2015 16:51	1		CLP-1 0.53(mm)
ICV 240-163079/16		01/02/2015 16:51	1		CLP-2 0.53(mm)
PEM 240-163079/17		01/02/2015 17:13	1		CLP-1 0.53(mm)
PEM 240-163079/17		01/02/2015 17:13	1		CLP-2 0.53(mm)
STD 240-163079/18 IC		01/02/2015 17:35	1	F0010218.D	CLP-1 0.53(mm)
STD 240-163079/18 IC		01/02/2015 17:35	1	F0010218.D	CLP-2 0.53(mm)
STD 240-163079/19 IC		01/02/2015 17:57	1	F0010219.D	CLP-1 0.53(mm)
STD 240-163079/19 IC		01/02/2015 17:57	1	F0010219.D	CLP-2 0.53(mm)
STD 240-163079/20 ICRT		01/02/2015 18:18	1	F0010220.D	CLP-1 0.53(mm)
STD 240-163079/20 ICRT		01/02/2015 18:18	1	F0010220.D	CLP-2 0.53(mm)
STD 240-163079/21 IC		01/02/2015 18:40	1	F0010221.D	CLP-1 0.53(mm)
STD 240-163079/21 IC		01/02/2015 18:40	1	F0010221.D	CLP-2 0.53(mm)
STD 240-163079/22 IC		01/02/2015 19:02	1	F0010222.D	CLP-1 0.53(mm)
STD 240-163079/22 IC		01/02/2015 19:02	1	F0010222.D	CLP-2 0.53(mm)
STD 240-163079/23 IC		01/02/2015 19:23	1	F0010223.D	CLP-1 0.53(mm)
STD 240-163079/23 IC		01/02/2015 19:23	1	F0010223.D	CLP-2 0.53(mm)
ICV 240-163079/24		01/02/2015 19:45	1	F0010224.D	CLP-1 0.53(mm)
ICV 240-163079/24		01/02/2015 19:45	1	F0010224.D	CLP-2 0.53(mm)
ZZZZZ		01/02/2015 20:07	1		CLP-1 0.53(mm)
ZZZZZ		01/02/2015 20:07	1		CLP-2 0.53(mm)

608

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP15 Start Date: 01/02/2015 12:52

Analysis Batch Number: 163079 End Date: 01/02/2015 23:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/02/2015 20:29	1		CLP-1 0.53(mm)
ZZZZZ		01/02/2015 20:29	1		CLP-2 0.53(mm)
ZZZZZ		01/02/2015 20:50	1		CLP-1 0.53(mm)
ZZZZZ		01/02/2015 20:50	1		CLP-2 0.53(mm)
ZZZZZ		01/02/2015 21:12	1		CLP-1 0.53(mm)
ZZZZZ		01/02/2015 21:12	1		CLP-2 0.53(mm)
ZZZZZ		01/02/2015 21:34	2		CLP-1 0.53(mm)
ZZZZZ		01/02/2015 21:34	2		CLP-2 0.53(mm)
ZZZZZ		01/02/2015 21:55	1		CLP-1 0.53(mm)
ZZZZZ		01/02/2015 21:55	1		CLP-2 0.53(mm)
ZZZZZ		01/02/2015 22:17	1		CLP-1 0.53(mm)
ZZZZZ		01/02/2015 22:17	1		CLP-2 0.53(mm)
CCV 240-163079/32		01/02/2015 22:39	1		CLP-1 0.53(mm)
CCV 240-163079/32		01/02/2015 22:39	1		CLP-2 0.53(mm)
CCV 240-163079/33		01/02/2015 23:01	1		CLP-1 0.53(mm)
CCV 240-163079/33		01/02/2015 23:01	1		CLP-2 0.53(mm)
CCV 240-163079/34		01/02/2015 23:22	1		CLP-1 0.53(mm)
CCV 240-163079/34		01/02/2015 23:22	1		CLP-2 0.53(mm)

GC SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP15 Start Date: 01/06/2015 10:33

Analysis Batch Number: 163275 End Date: 01/06/2015 17:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
PEM 240-163275/5		01/06/2015 10:33	1	F0010605.D	CLP-1 0.53(mm)
PEM 240-163275/5		01/06/2015 10:33	1	F0010605.D	CLP-2 0.53(mm)
CCV 240-163275/6 CCVRT		01/06/2015 10:55	1	F0010606.D	CLP-1 0.53(mm)
CCV 240-163275/6 CCVRT		01/06/2015 10:55	1	F0010606.D	CLP-2 0.53(mm)
CCV 240-163275/7 CCVRT		01/06/2015 11:16	1	F0010607.D	CLP-1 0.53(mm)
CCV 240-163275/7 CCVRT		01/06/2015 11:16	1	F0010607.D	CLP-2 0.53(mm)
CCV 240-163275/8 CCVRT		01/06/2015 11:38	1	F0010608.D	CLP-1 0.53(mm)
CCV 240-163275/8 CCVRT		01/06/2015 11:38	1	F0010608.D	CLP-2 0.53(mm)
ZZZZZ		01/06/2015 12:00	1		CLP-1 0.53(mm)
ZZZZZ		01/06/2015 12:00	1		CLP-2 0.53(mm)
CCV 240-163275/16		01/06/2015 14:32	1	F0010616.D	CLP-1 0.53(mm)
CCV 240-163275/16		01/06/2015 14:32	1	F0010616.D	CLP-2 0.53(mm)
240-45978-2	DSP-2-123014 (COMP)	01/06/2015 14:54	1	F0010617.D	CLP-1 0.53(mm)
240-45978-2	DSP-2-123014 (COMP)	01/06/2015 14:54	1	F0010617.D	CLP-2 0.53(mm)
ZZZZZ		01/06/2015 15:16	1		CLP-1 0.53(mm)
ZZZZZ		01/06/2015 15:16	1		CLP-2 0.53(mm)
ZZZZZ		01/06/2015 15:38	1		CLP-1 0.53(mm)
ZZZZZ		01/06/2015 15:38	1		CLP-2 0.53(mm)
MB 240-163139/4-A		01/06/2015 15:59	1	F0010620.D	CLP-1 0.53(mm)
MB 240-163139/4-A		01/06/2015 15:59	1	F0010620.D	CLP-2 0.53(mm)
LCS 240-163139/5-A		01/06/2015 16:21	1	F0010621.D	CLP-1 0.53(mm)
LCS 240-163139/5-A		01/06/2015 16:21	1	F0010621.D	CLP-2 0.53(mm)
CCV 240-163275/22		01/06/2015 16:43	1	F0010622.D	CLP-1 0.53(mm)
CCV 240-163275/22		01/06/2015 16:43	1	F0010622.D	CLP-2 0.53(mm)
CCV 240-163275/23		01/06/2015 17:05	1	F0010623.D	CLP-1 0.53(mm)
CCV 240-163275/23		01/06/2015 17:05	1	F0010623.D	CLP-2 0.53(mm)
CCV 240-163275/24		01/06/2015 17:26	1	F0010624.D	CLP-1 0.53(mm)
CCV 240-163275/24		01/06/2015 17:26	1	F0010624.D	CLP-2 0.53(mm)

GC SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163139 Batch Start Date: 01/05/15 06:51 Batch Analyst: Border, Elizabeth

Batch Method: 608 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	ReceivedpH	InitialAmount	FinalAmount	EX2/.2SURRW 00047	exNPDES spike 00002
240-45978-F-2	DSP-2-123014 (COMP)	608, 608	T	9 SU	5 SU	1050 mL	5 mL	1 mL	
MB 240-163139/4		608, 608			7 SU	1000 mL	5 mL	1 mL	
LCS 240-163139/5		608, 608			7 SU	1000 mL	5 mL	1 mL	0.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
240-45978-F-2	DSP-2-123014 (COMP)	608, 608	T	associated w/ 163143					
MB 240-163139/4		608, 608		associated w/ 163143					
LCS 240-163139/5		608, 608							

Batch Notes	
Exchange Solvent Lot #	1814177
Na2SO4 Lot Number	1555584
Prep Solvent Lot #	1826835

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 608 PCBs

Polychlorinated Biphenyls (PCBs) (GC) by Method 608

FORM II
PESTICIDES/PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): CLP-2 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX1 #	DCB1 #
DSP-2-123014 (COMP)	240-45978-2	83	22
	MB 240-163143/4-A	91	54
	LCS 240-163143/5-A	83	66

	QC LIMITS
TCX = Tetrachloro-m-xylene	15-131
DCB = DCB Decachlorobiphenyl	10-114

Column to be used to flag recovery values

FORM II 608

FORM III
PESTICIDES/PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P1100008.D

Lab ID: LCS 240-163143/5-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Aroclor-1016	5.00	4.40	88	50-114	
Aroclor-1260	5.00	4.07	81	8-127	

Column to be used to flag recovery and RPD values

FORM III 608

FORM IV
PESTICIDES/PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: MB 240-163143/4-A

Matrix: Water Date Extracted: 01/05/2015 06:55

Lab File ID:(1) P1100007.D Lab File ID:(2)

Date Analyzed:(1) 01/05/2015 14:26 Date Analyzed:(2)

Instrument ID:(1) A2HP11 Instrument ID:(2)

GC Column:(1) CLP-2 ID: 0.53(mm) GC Column:(2) ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
DSP-2-123014 (COMP)	240-45978-2	01/05/2015 13:44	
	LCS 240-163143/5-A	01/05/2015 14:40	

FORM VIII
PESTICIDES/PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: STD05 240-133461/35 Date Analyzed: 06/05/2014 20:05

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P1100035.D Heated Purge: (Y/N) N

Calibration ID: 22655

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
INITIAL CALIBRATION SURROGATE				2.47	8.28	
UPPER LIMIT				2.52	8.33	
LOWER LIMIT				2.42	8.23	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
STD05 240-133461/35 ICRT		06/05/2014 20:05	P1100035.D	2.47	8.28	

Column used to flag values outside QC limits

FORM VIII
PESTICIDES/PCBS ANALYTICAL SEQUENCE

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Sample No.: CCV 240-163212/3 Date Analyzed: 01/05/2015 13:30

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm)

Lab File ID (Standard): P1100003.D Heated Purge: (Y/N) N

Calibration ID: 22655

THE ANALYTICAL SEQUENCE OF BLANKS, SAMPLES, STANDARDS, MS/MSDs AND LCSs IS GIVEN BELOW:

				TCX	DCB	
				RT #	RT #	
CONTINUING CALIBRATION SURROGATE				2.40	8.19	
UPPER LIMIT				2.45	8.24	
LOWER LIMIT				2.35	8.14	
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	LAB FILE ID			
CCV 240-163212/3 CCVRT		01/05/2015 13:30	P1100003.D	2.40	8.19	
240-45978-2	DSP-2-123014 (COMP)	01/05/2015 13:44	P1100004.D	2.40	8.19	
MB 240-163143/4-A		01/05/2015 14:26	P1100007.D	2.40	8.19	
LCS 240-163143/5-A		01/05/2015 14:40	P1100008.D	2.41	8.19	
CCV 240-163212/9		01/05/2015 14:54	P1100009.D	2.40	8.19	

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

TCX RT Limit = ± 0.05 minutes of surrogate RT
DCB RT Limit = ± 0.05 minutes of surrogate RT

Column used to flag values outside QC limits

FORM VIII 608

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-163143/5-A

Instrument ID (1): A2HP11 Instrument ID (2):

Date Analyzed (1): 01/05/2015 14:40 Date Analyzed (2):

GC Column (1): CLP-2 ID: 0.53(mm) GC Column (2): ID:

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		
				FROM	TO	PEAK	MEAN	
Aroclor-1016	2	1	2.91	2.86	2.96	4.50	4.40	
		2	3.31	3.26	3.36	4.60		
		3	3.76	3.71	3.81	4.46		
		4	3.90	3.85	3.95	4.34		
		5	4.35	4.30	4.40	4.12		
Aroclor-1260	2	1	5.72	5.67	5.77	3.99	4.07	
		2	5.93	5.88	5.98	4.17		
		3	6.36	6.31	6.41	4.21		
		4	6.86	6.81	6.91	4.14		
		5	7.18	7.13	7.23	3.81		

FORM I
PESTICIDES/PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: DSP-2-123014 (COMP) | Lab Sample ID: 240-45978-2

Matrix: Water | Lab File ID: P1100004.D

Analysis Method: 608 | Date Collected: 12/30/2014 10:40

Extraction Method: 608 | Date Extracted: 01/05/2015 06:55

Sample wt/vol: 1050(mL) | Date Analyzed: 01/05/2015 13:44

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 163212 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor-1016	0.10	U	0.24	0.10
11104-28-2	Aroclor-1221	0.11	U	0.24	0.11
11141-16-5	Aroclor-1232	0.17	U	0.24	0.17
53469-21-9	Aroclor-1242	0.14	U	0.24	0.14
12672-29-6	Aroclor-1248	0.15	U	0.24	0.15
11097-69-1	Aroclor-1254	0.076	U	0.24	0.076
11096-82-5	Aroclor-1260	0.090	U	0.24	0.090

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	22		10-114
877-09-8	Tetrachloro-m-xylene	83		15-131

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 12:28 Calibration End Date: 06/05/2014 13:54 Calibration ID: 22631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/3	P1100003.D
Level 2	STD005 240-133461/4	P1100004.D
Level 3	STD01 240-133461/5	P1100005.D
Level 4	STD02 240-133461/6	P1100006.D
Level 5	STD05 240-133461/7	P1100007.D
Level 6	STD1 240-133461/8	P1100008.D
Level 7	STD2 240-133461/9	P1100009.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1232 Peak 1	2.974	2.974	2.974	2.973	2.974	2.973	2.976				2.924 - 3.024	2.974
PCB-1232 Peak 2	3.384	3.386	3.385	3.384	3.384	3.384	3.386				3.334 - 3.434	3.385
PCB-1232 Peak 3	3.838	3.837	3.837	3.837	3.838	3.838	3.839				3.788 - 3.888	3.838
PCB-1232 Peak 4	3.971	3.971	3.971	3.971	3.971	3.971	3.972				3.921 - 4.021	3.971
PCB-1232 Peak 5	4.434	4.435	4.435	4.435	4.434	4.434	4.436				4.384 - 4.484	4.435

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 12:28 Calibration End Date: 06/05/2014 13:54 Calibration ID: 22631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/3	P1100003.D
Level 2	STD005 240-133461/4	P1100004.D
Level 3	STD01 240-133461/5	P1100005.D
Level 4	STD02 240-133461/6	P1100006.D
Level 5	STD05 240-133461/7	P1100007.D
Level 6	STD1 240-133461/8	P1100008.D
Level 7	STD2 240-133461/9	P1100009.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1232 Peak 1	26803360 21538464	24164440 20581470	24279930 19510012	22438975	Lin1	247654.304	19982255.5							0.9980		0.9900
PCB-1232 Peak 2	21348160 17352422	17754040 16063103	19294200 15145679	18011890	Lin1	197382.933	15639276.2							0.9970		0.9900
PCB-1232 Peak 3	39185520 34128606	36673920 32429580	37101840 31759300	34611200	Ave		35127138.0				7.6		10.0			
PCB-1232 Peak 4	16099440 14454608	15655260 13516004	15777020 12955740	14903795	Ave		14765981.0				8.1		10.0			
PCB-1232 Peak 5	10479120 10121060	10632000 9460382	10966690 8994892	10289055	Ave		10134742.7				6.8		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 12:28 Calibration End Date: 06/05/2014 13:54 Calibration ID: 22631

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/3	P1100003.D
Level 2	STD005 240-133461/4	P1100004.D
Level 3	STD01 240-133461/5	P1100005.D
Level 4	STD02 240-133461/6	P1100006.D
Level 5	STD05 240-133461/7	P1100007.D
Level 6	STD1 240-133461/8	P1100008.D
Level 7	STD2 240-133461/9	P1100009.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1232 Peak 1	Lin1	670084 20581470	1208222 39020024	2427993	4487795	10769232	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1232 Peak 2	Lin1	533704 16063103	887702 30291358	1929420	3602378	8676211	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1232 Peak 3	Ave	979638 32429580	1833696 63518600	3710184	6922240	17064303	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1232 Peak 4	Ave	402486 13516004	782763 25911480	1577702	2980759	7227304	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1232 Peak 5	Ave	261978 9460382	531600 17989784	1096669	2057811	5060530	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 14:08 Calibration End Date: 06/05/2014 15:34 Calibration ID: 22637

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/10	P1100010.D
Level 2	STD005 240-133461/11	P1100011.D
Level 3	STD01 240-133461/12	P1100012.D
Level 4	STD02 240-133461/13	P1100013.D
Level 5	STD05 240-133461/14	P1100014.D
Level 6	STD1 240-133461/15	P1100015.D
Level 7	STD2 240-133461/16	P1100016.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1242 Peak 1	2.973	2.974	2.974	2.976	2.975	2.977	2.976				2.923 - 3.023	2.975
PCB-1242 Peak 2	3.386	3.384	3.386	3.387	3.387	3.387	3.387				3.336 - 3.436	3.386
PCB-1242 Peak 3	3.839	3.837	3.838	3.838	3.839	3.838	3.839				3.789 - 3.889	3.838
PCB-1242 Peak 4	3.972	3.972	3.973	3.973	3.973	3.972	3.972				3.922 - 4.022	3.972
PCB-1242 Peak 5	4.172	4.171	4.171	4.172	4.172	4.171	4.171				4.122 - 4.222	4.171

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 14:08 Calibration End Date: 06/05/2014 15:34 Calibration ID: 22637

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/10	P1100010.D
Level 2	STD005 240-133461/11	P1100011.D
Level 3	STD01 240-133461/12	P1100012.D
Level 4	STD02 240-133461/13	P1100013.D
Level 5	STD05 240-133461/14	P1100014.D
Level 6	STD1 240-133461/15	P1100015.D
Level 7	STD2 240-133461/16	P1100016.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1242 Peak 1	17059840 14992774	17490000 14380272	16920860 13917106	16234645	Ave		15856499.5				8.9		10.0			
PCB-1242 Peak 2	36403160 29172534	35891060 28542255	33667140 26658958	32503755	Lin1	393321.951	27423298.4							0.9970		0.9900
PCB-1242 Peak 3	68026880 61498596	69647800 62291826	67935860 60619450	65583735	Ave		65086306.6				5.6		10.0			
PCB-1242 Peak 4	28624120 25585528	27165440 25331904	29057640 24084731	27849580	Ave		26814134.6				6.9		10.0			
PCB-1242 Peak 5	15774760 12559004	15880240 12206231	14562490 11336538	13919560	Lin1	183449.374	11691149.5							0.9970		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 14:08 Calibration End Date: 06/05/2014 15:34 Calibration ID: 22637

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/10	P1100010.D
Level 2	STD005 240-133461/11	P1100011.D
Level 3	STD01 240-133461/12	P1100012.D
Level 4	STD02 240-133461/13	P1100013.D
Level 5	STD05 240-133461/14	P1100014.D
Level 6	STD1 240-133461/15	P1100015.D
Level 7	STD2 240-133461/16	P1100016.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1242 Peak 1	Ave	426496 14380272	874500 27834211	1692086	3246929	7496387	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1242 Peak 2	Lin1	910079 28542255	1794553 53317916	3366714	6500751	14586267	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1242 Peak 3	Ave	1700672 62291826	3482390 121238899	6793586	13116747	30749298	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1242 Peak 4	Ave	715603 25331904	1358272 48169461	2905764	5569916	12792764	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1242 Peak 5	Lin1	394369 12206231	794012 22673075	1456249	2783912	6279502	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 15:48 Calibration End Date: 06/05/2014 17:14 Calibration ID: 22643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD025 240-133461/17	P1100017.D
Level 2	STD005 240-133461/18	P1100018.D
Level 3	STD01 240-133461/19	P1100019.D
Level 4	STD02 240-133461/20	P1100020.D
Level 5	STD05 240-133461/21	P1100021.D
Level 6	STD1 240-133461/22	P1100022.D
Level 7	STD2 240-133461/23	P1100023.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1248 Peak 1	3.835	3.834	3.835	3.836	3.836	3.835	3.833				3.785 - 3.885	3.835
PCB-1248 Peak 2	4.171	4.171	4.170	4.172	4.172	4.171	4.170				4.121 - 4.221	4.171
PCB-1248 Peak 3	4.435	4.436	4.435	4.437	4.437	4.436	4.435				4.385 - 4.485	4.436
PCB-1248 Peak 4	4.904	4.905	4.905	4.906	4.906	4.906	4.904				4.854 - 4.954	4.905
PCB-1248 Peak 5	5.605	5.606	5.605	5.607	5.606	5.606	5.605				5.555 - 5.655	5.606

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 15:48 Calibration End Date: 06/05/2014 17:14 Calibration ID: 22643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD025 240-133461/17	P1100017.D
Level 2	STD005 240-133461/18	P1100018.D
Level 3	STD01 240-133461/19	P1100019.D
Level 4	STD02 240-133461/20	P1100020.D
Level 5	STD05 240-133461/21	P1100021.D
Level 6	STD1 240-133461/22	P1100022.D
Level 7	STD2 240-133461/23	P1100023.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1248 Peak 1	48058240 40732752	43593920 36077193	39420390 37867925	39827785	Ave		40796886.4				9.7		10.0			
PCB-1248 Peak 2	31983760 24732080	27975760 21677836	25062850 22065131	25146605	Lin1	301302.800	22141678.8							0.9980		0.9900
PCB-1248 Peak 3	39810240 34638450	38040780 30537648	33972860 31579087	34494660	Ave		34724817.9				9.5		10.0			
PCB-1248 Peak 4	53739720 45383652	47935960 40063426	40924030 41490972	44200890	Lin1	309054.314	41353983.7							0.9980		0.9900
PCB-1248 Peak 5	27843400 23572894	24972980 20243440	22197860 21210237	23433795	Lin1	197316.163	21140755.3							0.9970		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 15:48 Calibration End Date: 06/05/2014 17:14 Calibration ID: 22643

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD025 240-133461/17	P1100017.D
Level 2	STD005 240-133461/18	P1100018.D
Level 3	STD01 240-133461/19	P1100019.D
Level 4	STD02 240-133461/20	P1100020.D
Level 5	STD05 240-133461/21	P1100021.D
Level 6	STD1 240-133461/22	P1100022.D
Level 7	STD2 240-133461/23	P1100023.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1248 Peak 1	Ave	1201456 36077193	2179696 75735850	3942039	7965557	20366376	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1248 Peak 2	Lin1	799594 21677836	1398788 44130261	2506285	5029321	12366040	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1248 Peak 3	Ave	995256 30537648	1902039 63158174	3397286	6898932	17319225	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1248 Peak 4	Lin1	1343493 40063426	2396798 82981943	4092403	8840178	22691826	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1248 Peak 5	Lin1	696085 20243440	1248649 42420474	2219786	4686759	11786447	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 17:28 Calibration End Date: 06/05/2014 18:54 Calibration ID: 22649

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/24	P1100024.D
Level 2	STD005 240-133461/25	P1100025.D
Level 3	STD01 240-133461/26	P1100026.D
Level 4	STD02 240-133461/27	P1100027.D
Level 5	STD05 240-133461/28	P1100028.D
Level 6	STD1 240-133461/29	P1100029.D
Level 7	STD2 240-133461/30	P1100030.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1221 Peak 1	2.770	2.770	2.770	2.770	2.769	2.769	2.769				2.720 - 2.820	2.770
PCB-1221 Peak 2	2.914	2.913	2.914	2.914	2.912	2.913	2.912				2.864 - 2.964	2.913
PCB-1221 Peak 3	2.974	2.975	2.975	2.974	2.974	2.974	2.974				2.924 - 3.024	2.974
PCB-1254 Peak 1	4.900	4.900	4.901	4.900	4.899	4.899	4.900				4.850 - 4.950	4.900
PCB-1254 Peak 2	5.114	5.115	5.114	5.114	5.114	5.113	5.113				5.064 - 5.164	5.114
PCB-1254 Peak 3	5.605	5.605	5.605	5.605	5.605	5.605	5.605				5.555 - 5.655	5.605
PCB-1254 Peak 4	5.836	5.836	5.836	5.836	5.836	5.836	5.836				5.786 - 5.886	5.836
PCB-1254 Peak 5	6.356	6.356	6.356	6.356	6.356	6.356	6.357				6.306 - 6.406	6.356

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 17:28 Calibration End Date: 06/05/2014 18:54 Calibration ID: 22649

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/24	P1100024.D
Level 2	STD005 240-133461/25	P1100025.D
Level 3	STD01 240-133461/26	P1100026.D
Level 4	STD02 240-133461/27	P1100027.D
Level 5	STD05 240-133461/28	P1100028.D
Level 6	STD1 240-133461/29	P1100029.D
Level 7	STD2 240-133461/30	P1100030.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1221 Peak 1	13427560 11036444	12442320 10547311	12201960 9780747	11537625	Lin1	129262.801	10118119.6							0.9970		0.9900
PCB-1221 Peak 2	8950080 7127552	7606220 6994360	7845720 6364932	7713230	Lin1	79542.0906	6622577.13							0.9970		0.9900
PCB-1221 Peak 3	32205200 26442616	29306900 25683088	29501160 23970669	28096625	Ave		27886608.3				9.9		10.0			
PCB-1254 Peak 1	52741960 41494042	46174080 39627921	45543110 38118670	42003760	Lin1	439829.726	38739558.4							0.9990		0.9900
PCB-1254 Peak 2	56916240 46005432	50941100 43829208	49271410 41985168	45312320	Lin1	446448.671	42744951.0							0.9990		0.9900
PCB-1254 Peak 3	87786160 75869784	80346320 72909562	79702050 70609303	73445380	Ave		77238365.6				7.6		10.0			
PCB-1254 Peak 4	57498400 49621346	52105820 47307737	51509240 45681311	46731045	Ave		50064985.6				8.1		10.0			
PCB-1254 Peak 5	76546160 68446460	71178060 64969178	70479380 63083430	64280965	Ave		68426233.2				6.9		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 17:28 Calibration End Date: 06/05/2014 18:54 Calibration ID: 22649

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/24	P1100024.D
Level 2	STD005 240-133461/25	P1100025.D
Level 3	STD01 240-133461/26	P1100026.D
Level 4	STD02 240-133461/27	P1100027.D
Level 5	STD05 240-133461/28	P1100028.D
Level 6	STD1 240-133461/29	P1100029.D
Level 7	STD2 240-133461/30	P1100030.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1221 Peak 1	Lin1	335689 10547311	622116 19561494	1220196	2307525	5518222	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1221 Peak 2	Lin1	223752 6994360	380311 12729864	784572	1542646	3563776	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1221 Peak 3	Ave	805130 25683088	1465345 47941338	2950116	5619325	13221308	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1254 Peak 1	Lin1	1318549 39627921	2308704 76237339	4554311	8400752	20747021	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1254 Peak 2	Lin1	1422906 43829208	2547055 83970336	4927141	9062464	23002716	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1254 Peak 3	Ave	2194654 72909562	4017316 141218606	7970205	14689076	37934892	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1254 Peak 4	Ave	1437460 47307737	2605291 91362622	5150924	9346209	24810673	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1254 Peak 5	Ave	1913654 64969178	3558903 126166859	7047938	12856193	34223230	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 19:08 Calibration End Date: 06/05/2014 20:34 Calibration ID: 22655

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/31	P1100031.D
Level 2	STD005 240-133461/32	P1100032.D
Level 3	STD01 240-133461/33	P1100033.D
Level 4	STD02 240-133461/34	P1100034.D
Level 5	STD05 240-133461/35	P1100035.D
Level 6	STD1 240-133461/36	P1100036.D
Level 7	STD2 240-133461/37	P1100037.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.975	2.976	2.973	2.974	2.974	2.973	2.974				2.924 - 3.024	2.974
PCB-1016 Peak 2	3.386	3.388	3.384	3.385	3.385	3.384	3.385				3.335 - 3.435	3.385
PCB-1016 Peak 3	3.838	3.838	3.837	3.838	3.837	3.837	3.838				3.787 - 3.887	3.838
PCB-1016 Peak 4	3.971	3.972	3.971	3.972	3.972	3.971	3.971				3.922 - 4.022	3.971
PCB-1016 Peak 5	4.436	4.436	4.435	4.435	4.435	4.435	4.435				4.385 - 4.485	4.435
PCB-1260 Peak 1	5.804	5.805	5.803	5.803	5.803	5.803	5.804				5.753 - 5.853	5.804
PCB-1260 Peak 2	6.011	6.012	6.011	6.012	6.012	6.012	6.011				5.962 - 6.062	6.012
PCB-1260 Peak 3	6.441	6.441	6.441	6.441	6.441	6.440	6.441				6.391 - 6.491	6.441
PCB-1260 Peak 4	6.937	6.938	6.938	6.938	6.937	6.937	6.937				6.887 - 6.987	6.937
PCB-1260 Peak 5	7.260	7.261	7.259	7.259	7.259	7.259	7.259				7.209 - 7.309	7.259
Tetrachloro-m-xylene	2.466	2.466	2.466	2.466	2.465	2.465	2.466				2.415 - 2.515	2.466
DCB Decachlorobiphenyl	8.277	8.277	8.277	8.276	8.276	8.277	8.276				8.226 - 8.326	8.277

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 19:08 Calibration End Date: 06/05/2014 20:34 Calibration ID: 22655

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/31	P1100031.D
Level 2	STD005 240-133461/32	P1100032.D
Level 3	STD01 240-133461/33	P1100033.D
Level 4	STD02 240-133461/34	P1100034.D
Level 5	STD05 240-133461/35	P1100035.D
Level 6	STD1 240-133461/36	P1100036.D
Level 7	STD2 240-133461/37	P1100037.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	23379720 18182728	21267160 17623435	20706160 16905261	19868540	Lin1	223239.475	17201243.5							0.9990		0.9900
PCB-1016 Peak 2	52212520 35261766	45197600 34559785	41077790 33332055	38577980	Lin1	572704.894	33608880.2							0.9990		0.9900
PCB-1016 Peak 3	91400960 76361162	86595780 76954922	83262710 76478832	79026810	Ave		81440168.0				7.2		10.0			
PCB-1016 Peak 4	38749040 31776584	37602460 31373148	36034390 30652707	33856015	Ave		34292049.1				9.4		10.0			
PCB-1016 Peak 5	27627720 24586698	28354880 24250853	28101960 24115910	26693900	Ave		26247417.2				7.2		10.0			
PCB-1260 Peak 1	65161440 51656038	63070560 51364631	59279940 51157480	55067250	Ave		56679619.9				10.0		10.0			
PCB-1260 Peak 2	69869080 57887534	67511540 57753538	64659110 57652807	61026780	Ave		62337198.4				8.1		10.0			
PCB-1260 Peak 3	45853440 39033732	47851940 38386926	43620180 38194112	41205195	Ave		42020789.2				9.1		10.0			
PCB-1260 Peak 4	106670960 98896204	109651540 100512310	106363200 101828420	100101580	Ave		103432031				4.0		10.0			
PCB-1260 Peak 5	80903920 68945308	80372840 69549271	77334890 69449360	71429245	Ave		73997833.4				7.2		10.0			
Tetrachloro-m-xylene	1282855200 1116374440	1217342400 1159724520	1186623000 1171501720	1164034600	Ave		1185493697				4.4		10.0			
DCB Decachlorobiphenyl	1304564800 1042716120	1319031200 1033574160	1292012600 990728660	1137837300	Lin1	690616.444	1005171003							0.9980		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 19:08 Calibration End Date: 06/05/2014 20:34 Calibration ID: 22655

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/31	P1100031.D
Level 2	STD005 240-133461/32	P1100032.D
Level 3	STD01 240-133461/33	P1100033.D
Level 4	STD02 240-133461/34	P1100034.D
Level 5	STD05 240-133461/35	P1100035.D
Level 6	STD1 240-133461/36	P1100036.D
Level 7	STD2 240-133461/37	P1100037.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	Lin1	584493 17623435	1063358 33810521	2070616	3973708	9091364	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Lin1	1305313 34559785	2259880 66664109	4107779	7715596	17630883	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	2285024 76954922	4329789 152957664	8326271	15805362	38180581	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	968726 31373148	1880123 61305413	3603439	6771203	15888292	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 5	Ave	690693 24250853	1417744 48231819	2810196	5338780	12293349	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	1629036 51364631	3153528 102314961	5927994	11013450	25828019	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	1746727 57753538	3375577 115305613	6465911	12205356	28943767	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	1146336 38386926	2392597 76388223	4362018	8241039	19516866	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	2666774 100512310	5482577 203656839	10636320	20020316	49448102	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 5	Ave	2022598 69549271	4018642 138898719	7733489	14285849	34472654	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	1603569 57986226	3043356 117150172	5933115	11640346	27909361	0.00125 0.0500	0.00250 0.100	0.00500	0.0100	0.0250
DCB Decachlorobiphenyl	Lin1	1630706 51678708	3297578 99072866	6460063	11378373	26067903	0.00125 0.0500	0.00250 0.100	0.00500	0.0100	0.0250

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 20:48 Calibration End Date: 06/05/2014 22:14 Calibration ID: 22661

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/38	P1100038.D
Level 2	STD005 240-133461/39	P1100039.D
Level 3	STD01 240-133461/40	P1100040.D
Level 4	STD02 240-133461/41	P1100041.D
Level 5	STD05 240-133461/42	P1100042.D
Level 6	STD1 240-133461/43	P1100043.D
Level 7	STD2 240-133461/44	P1100044.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1262 Peak 1	6.012	6.012	6.012	6.012	6.012	6.011	6.012				5.962 - 6.062	6.012
PCB-1262 Peak 2	6.441	6.441	6.441	6.441	6.439	6.440	6.441				6.391 - 6.491	6.441
PCB-1262 Peak 3	6.714	6.713	6.713	6.714	6.712	6.711	6.712				6.664 - 6.764	6.713
PCB-1262 Peak 4	6.938	6.937	6.937	6.938	6.937	6.936	6.937				6.888 - 6.988	6.937
PCB-1262 Peak 5	7.256	7.255	7.255	7.255	7.254	7.255	7.254				7.206 - 7.306	7.255

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 20:48 Calibration End Date: 06/05/2014 22:14 Calibration ID: 22661

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/38	P1100038.D
Level 2	STD005 240-133461/39	P1100039.D
Level 3	STD01 240-133461/40	P1100040.D
Level 4	STD02 240-133461/41	P1100041.D
Level 5	STD05 240-133461/42	P1100042.D
Level 6	STD1 240-133461/43	P1100043.D
Level 7	STD2 240-133461/44	P1100044.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1262 Peak 1	54764160 44112396	51385880 42622421	50512180 43182754	41130750	Lin1	360750.822	42770228.7							0.9990		0.9900
PCB-1262 Peak 2	72762080 63511230	74400160 64431409	72068800 65714998	60749260	Ave		67662562.5				7.9		10.0			
PCB-1262 Peak 3	71423480 59449490	67873060 58757180	66498900 60251229	55995465	Ave		62892686.2				9.0		10.0			
PCB-1262 Peak 4	143165280 122717406	135832700 123517269	133732710 130445386	112311280	Ave		128817433				7.9		10.0			
PCB-1262 Peak 5	104484480 84511584	97901200 85080849	95008700 89813684	81296815	Ave		91156758.9				9.2		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 20:48 Calibration End Date: 06/05/2014 22:14 Calibration ID: 22661

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/38	P1100038.D
Level 2	STD005 240-133461/39	P1100039.D
Level 3	STD01 240-133461/40	P1100040.D
Level 4	STD02 240-133461/41	P1100041.D
Level 5	STD05 240-133461/42	P1100042.D
Level 6	STD1 240-133461/43	P1100043.D
Level 7	STD2 240-133461/44	P1100044.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1262 Peak 1	Lin1	1369104 42622421	2569294 86365507	5051218	8226150	22056198	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1262 Peak 2	Ave	1819052 64431409	3720008 131429997	7206880	12149852	31755615	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1262 Peak 3	Ave	1785587 58757180	3393653 120502457	6649890	11199093	29724745	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1262 Peak 4	Ave	3579132 123517269	6791635 260890772	13373271	22462256	61358703	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1262 Peak 5	Ave	2612112 85080849	4895060 179627368	9500870	16259363	42255792	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 22:28 Calibration End Date: 06/05/2014 23:54 Calibration ID: 22667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/45	P1100045.D
Level 2	STD005 240-133461/46	P1100046.D
Level 3	STD01 240-133461/47	P1100047.D
Level 4	STD02 240-133461/48	P1100048.D
Level 5	STD05 240-133461/49	P1100049.D
Level 6	STD1 240-133461/50	P1100050.D
Level 7	STD2 240-133461/51	P1100051.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1268 Peak 1	7.252	7.253	7.253	7.253	7.252	7.253	7.252				7.202 - 7.302	7.253
PCB-1268 Peak 2	7.292	7.293	7.293	7.293	7.292	7.293	7.292				7.242 - 7.342	7.293
PCB-1268 Peak 3	7.511	7.511	7.511	7.510	7.510	7.511	7.510				7.461 - 7.561	7.511
PCB-1268 Peak 4	7.749	7.750	7.749	7.748	7.749	7.749	7.748				7.699 - 7.799	7.749
PCB-1268 Peak 5	8.032	8.033	8.032	8.033	8.032	8.033	8.032				7.982 - 8.082	8.032

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 22:28 Calibration End Date: 06/05/2014 23:54 Calibration ID: 22667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/45	P1100045.D
Level 2	STD005 240-133461/46	P1100046.D
Level 3	STD01 240-133461/47	P1100047.D
Level 4	STD02 240-133461/48	P1100048.D
Level 5	STD05 240-133461/49	P1100049.D
Level 6	STD1 240-133461/50	P1100050.D
Level 7	STD2 240-133461/51	P1100051.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1268 Peak 1	183343680 144816560	168696740 149999682	155493500 153491938	152989260	Ave		158404480				8.3		10.0			
PCB-1268 Peak 2	181662880 145450318	171179900 149772339	158389530 151930694	155183025	Ave		159081241				8.1		10.0			
PCB-1268 Peak 3	149687640 120505362	144277840 123832523	132034270 125961018	128548290	Ave		132120992				8.2		10.0			
PCB-1268 Peak 4	66717400 50983338	62344180 51061805	57562610 50594166	55901125	Lin1	529096.727	50518647.2							1.0000		0.9900
PCB-1268 Peak 5	450305720 393003400	435777280 414689044	403862400 429254314	403866930	Ave		418679870				4.9		10.0			

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
PESTICIDES/PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-45978-1 Analy Batch No.: 133461

SDG No.:

Instrument ID: A2HP11 GC Column: CLP-2 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2014 22:28 Calibration End Date: 06/05/2014 23:54 Calibration ID: 22667

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD0025 240-133461/45	P1100045.D
Level 2	STD005 240-133461/46	P1100046.D
Level 3	STD01 240-133461/47	P1100047.D
Level 4	STD02 240-133461/48	P1100048.D
Level 5	STD05 240-133461/49	P1100049.D
Level 6	STD1 240-133461/50	P1100050.D
Level 7	STD2 240-133461/51	P1100051.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
PCB-1268 Peak 1	Ave	4583592 149999682	8434837 306983876	15549350	30597852	72408280	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1268 Peak 2	Ave	4541572 149772339	8558995 303861387	15838953	31036605	72725159	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1268 Peak 3	Ave	3742191 123832523	7213892 251922036	13203427	25709658	60252681	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1268 Peak 4	Lin1	1667935 51061805	3117209 101188331	5756261	11180225	25491669	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1268 Peak 5	Ave	11257643 414689044	21788864 858508628	40386240	80773386	196501700	0.0250 1.00	0.0500 2.00	0.100	0.200	0.500

Curve Type Legend:

Ave = Average
Lin1 = Linear 1/conc

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: ICV 240-133461/52 Calibration Date: 06/06/2014 00:08

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100052.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		19347133		1.11	1.00	11.2	20.0
PCB-1016 Peak 2	Lin1		39785136		1.17	1.00	16.7	20.0
PCB-1016 Peak 3	Ave	81440168	88118602		1.08	1.00	8.2	20.0
PCB-1016 Peak 4	Ave	34292049	35679096		1.04	1.00	4.0	20.0
PCB-1016 Peak 5	Ave	26247417	27044537		1.03	1.00	3.0	20.0
PCB-1260 Peak 1	Ave	56679620	55441864		0.978	1.00	-2.2	20.0
PCB-1260 Peak 2	Ave	62337198	62013800		0.995	1.00	-0.5	20.0
PCB-1260 Peak 3	Ave	42020789	41035967		0.977	1.00	-2.3	20.0
PCB-1260 Peak 4	Ave	103432031	107616141		1.04	1.00	4.0	20.0
PCB-1260 Peak 5	Ave	73997833	74517863		1.01	1.00	0.7	20.0

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: ICV 240-133461/52 Calibration Date: 06/06/2014 00:08

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100052.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.98	2.92	3.02
PCB-1016 Peak 2	3.39	3.34	3.44
PCB-1016 Peak 3	3.84	3.79	3.89
PCB-1016 Peak 4	3.97	3.92	4.02
PCB-1016 Peak 5	4.44	4.39	4.49
PCB-1260 Peak 1	5.80	5.75	5.85
PCB-1260 Peak 2	6.01	5.96	6.06
PCB-1260 Peak 3	6.44	6.39	6.49
PCB-1260 Peak 4	6.94	6.89	6.99
PCB-1260 Peak 5	7.26	7.21	7.31

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163212/3 Calibration Date: 01/05/2015 13:30

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100003.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		18850646		0.535	0.500	7.0	15.0
PCB-1016 Peak 2	Lin1		37645570		0.543	0.500	8.6	15.0
PCB-1016 Peak 3	Ave	81440168	77551960		0.476	0.500	-4.8	15.0
PCB-1016 Peak 4	Ave	34292049	32429048		0.473	0.500	-5.4	15.0
PCB-1016 Peak 5	Ave	26247417	23215182		0.442	0.500	-11.6	15.0
PCB-1260 Peak 1	Ave	56679620	48528714		0.428	0.500	-14.4	15.0
PCB-1260 Peak 2	Ave	62337198	53641012		0.430	0.500	-14.0	15.0
PCB-1260 Peak 3	Ave	42020789	43094388		0.513	0.500	2.6	15.0
PCB-1260 Peak 4	Ave	103432031	99645768		0.482	0.500	-3.7	15.0
PCB-1260 Peak 5	Ave	73997833	65089882		0.440	0.500	-12.0	15.0
Tetrachloro-m-xylene	Ave	1185493697	1092304600		0.0230	0.0250	-7.9	15.0
DCB Decachlorobiphenyl	Lin1		821876440		0.0198	0.0250	-21.0*	15.0

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163212/3 Calibration Date: 01/05/2015 13:30

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100003.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.91	2.86	2.96
PCB-1016 Peak 2	3.31	3.26	3.36
PCB-1016 Peak 3	3.76	3.71	3.81
PCB-1016 Peak 4	3.90	3.85	3.95
PCB-1016 Peak 5	4.35	4.30	4.40
PCB-1260 Peak 1	5.72	5.67	5.77
PCB-1260 Peak 2	5.93	5.88	5.98
PCB-1260 Peak 3	6.36	6.31	6.41
PCB-1260 Peak 4	6.86	6.81	6.91
PCB-1260 Peak 5	7.18	7.13	7.23
Tetrachloro-m-xylene	2.40	2.35	2.45
DCB Decachlorobiphenyl	8.19	8.14	8.24

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163212/9 Calibration Date: 01/05/2015 14:54

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100009.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Lin1		18497266		0.525	0.500	4.9	15.0
PCB-1016 Peak 2	Lin1		34965352		0.503	0.500	0.6	15.0
PCB-1016 Peak 3	Ave	81440168	76375918		0.469	0.500	-6.2	15.0
PCB-1016 Peak 4	Ave	34292049	32452986		0.473	0.500	-5.4	15.0
PCB-1016 Peak 5	Ave	26247417	23629160		0.450	0.500	-10.0	15.0
PCB-1260 Peak 1	Ave	56679620	46444506		0.410	0.500	-18.1*	15.0
PCB-1260 Peak 2	Ave	62337198	52478148		0.421	0.500	-15.8*	15.0
PCB-1260 Peak 3	Ave	42020789	42271412		0.503	0.500	0.6	15.0
PCB-1260 Peak 4	Ave	103432031	93742776		0.453	0.500	-9.4	15.0
PCB-1260 Peak 5	Ave	73997833	60696800		0.410	0.500	-18.0*	15.0
Tetrachloro-m-xylene	Ave	1185493697	1078422600		0.0227	0.0250	-9.0	15.0
DCB Decachlorobiphenyl	Lin1		782874520		0.0188	0.0250	-24.9*	15.0

FORM VII
PESTICIDES/PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: CCV 240-163212/9 Calibration Date: 01/05/2015 14:54

Instrument ID: A2HP11 Calib Start Date: 06/05/2014 19:08

GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 06/05/2014 20:34

Lab File ID: P1100009.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.90	2.85	2.95
PCB-1016 Peak 2	3.31	3.26	3.36
PCB-1016 Peak 3	3.76	3.71	3.81
PCB-1016 Peak 4	3.89	3.84	3.94
PCB-1016 Peak 5	4.35	4.30	4.40
PCB-1260 Peak 1	5.72	5.67	5.77
PCB-1260 Peak 2	5.93	5.88	5.98
PCB-1260 Peak 3	6.36	6.31	6.41
PCB-1260 Peak 4	6.86	6.81	6.91
PCB-1260 Peak 5	7.18	7.13	7.23
Tetrachloro-m-xylene	2.40	2.35	2.45
DCB Decachlorobiphenyl	8.19	8.14	8.24

FORM I
PESTICIDES/PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-163143/4-A

Matrix: Water | Lab File ID: P1100007.D

Analysis Method: 608 | Date Collected:

Extraction Method: 608 | Date Extracted: 01/05/2015 06:55

Sample wt/vol: 1000(mL) | Date Analyzed: 01/05/2015 14:26

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 163212 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor-1016	0.11	U	0.25	0.11
11104-28-2	Aroclor-1221	0.11	U	0.25	0.11
11141-16-5	Aroclor-1232	0.18	U	0.25	0.18
53469-21-9	Aroclor-1242	0.15	U	0.25	0.15
12672-29-6	Aroclor-1248	0.15	U	0.25	0.15
11097-69-1	Aroclor-1254	0.080	U	0.25	0.080
11096-82-5	Aroclor-1260	0.095	U	0.25	0.095

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	54		10-114
877-09-8	Tetrachloro-m-xylene	91		15-131

FORM I
PESTICIDES/PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-45978-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-163143/5-A

Matrix: Water | Lab File ID: P1100008.D

Analysis Method: 608 | Date Collected:

Extraction Method: 608 | Date Extracted: 01/05/2015 06:55

Sample wt/vol: 1000(mL) | Date Analyzed: 01/05/2015 14:40

Con. Extract Vol.: 5(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | GC Column: CLP-2 ID: 0.53(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 163212 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor-1016	4.40		0.25	0.11
11096-82-5	Aroclor-1260	4.07		0.25	0.095

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	66		10-114
877-09-8	Tetrachloro-m-xylene	83		15-131

PESTICIDES/PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP11 Start Date: 06/05/2014 12:28

Analysis Batch Number: 133461 End Date: 06/06/2014 00:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD0025 240-133461/3 IC		06/05/2014 12:28	1		CLP-1 0.53(mm)
STD0025 240-133461/3 IC		06/05/2014 12:28	1	P1100003.D	CLP-2 0.53(mm)
STD005 240-133461/4 IC		06/05/2014 12:42	1		CLP-1 0.53(mm)
STD005 240-133461/4 IC		06/05/2014 12:42	1	P1100004.D	CLP-2 0.53(mm)
STD01 240-133461/5 IC		06/05/2014 12:57	1		CLP-1 0.53(mm)
STD01 240-133461/5 IC		06/05/2014 12:57	1	P1100005.D	CLP-2 0.53(mm)
STD02 240-133461/6 IC		06/05/2014 13:11	1		CLP-1 0.53(mm)
STD02 240-133461/6 IC		06/05/2014 13:11	1	P1100006.D	CLP-2 0.53(mm)
STD05 240-133461/7 IC		06/05/2014 13:25	1		CLP-1 0.53(mm)
STD05 240-133461/7 IC		06/05/2014 13:25	1	P1100007.D	CLP-2 0.53(mm)
STD1 240-133461/8 IC		06/05/2014 13:39	1		CLP-1 0.53(mm)
STD1 240-133461/8 IC		06/05/2014 13:39	1	P1100008.D	CLP-2 0.53(mm)
STD2 240-133461/9 IC		06/05/2014 13:54	1		CLP-1 0.53(mm)
STD2 240-133461/9 IC		06/05/2014 13:54	1	P1100009.D	CLP-2 0.53(mm)
STD0025 240-133461/10 IC		06/05/2014 14:08	1		CLP-1 0.53(mm)
STD0025 240-133461/10 IC		06/05/2014 14:08	1	P1100010.D	CLP-2 0.53(mm)
STD005 240-133461/11 IC		06/05/2014 14:22	1		CLP-1 0.53(mm)
STD005 240-133461/11 IC		06/05/2014 14:22	1	P1100011.D	CLP-2 0.53(mm)
STD01 240-133461/12 IC		06/05/2014 14:37	1		CLP-1 0.53(mm)
STD01 240-133461/12 IC		06/05/2014 14:37	1	P1100012.D	CLP-2 0.53(mm)
STD02 240-133461/13 IC		06/05/2014 14:51	1		CLP-1 0.53(mm)
STD02 240-133461/13 IC		06/05/2014 14:51	1	P1100013.D	CLP-2 0.53(mm)
STD05 240-133461/14 IC		06/05/2014 15:05	1		CLP-1 0.53(mm)
STD05 240-133461/14 IC		06/05/2014 15:05	1	P1100014.D	CLP-2 0.53(mm)
STD1 240-133461/15 IC		06/05/2014 15:20	1		CLP-1 0.53(mm)
STD1 240-133461/15 IC		06/05/2014 15:20	1	P1100015.D	CLP-2 0.53(mm)
STD2 240-133461/16 IC		06/05/2014 15:34	1		CLP-1 0.53(mm)
STD2 240-133461/16 IC		06/05/2014 15:34	1	P1100016.D	CLP-2 0.53(mm)
STD025 240-133461/17 IC		06/05/2014 15:48	1		CLP-1 0.53(mm)
STD025 240-133461/17 IC		06/05/2014 15:48	1	P1100017.D	CLP-2 0.53(mm)
STD005 240-133461/18 IC		06/05/2014 16:03	1		CLP-1 0.53(mm)
STD005 240-133461/18 IC		06/05/2014 16:03	1	P1100018.D	CLP-2 0.53(mm)
STD01 240-133461/19 IC		06/05/2014 16:17	1		CLP-1 0.53(mm)

PESTICIDES/PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP11 Start Date: 06/05/2014 12:28

Analysis Batch Number: 133461 End Date: 06/06/2014 00:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD01 240-133461/19 IC		06/05/2014 16:17	1	P1100019.D	CLP-2 0.53(mm)
STD02 240-133461/20 IC		06/05/2014 16:31	1		CLP-1 0.53(mm)
STD02 240-133461/20 IC		06/05/2014 16:31	1	P1100020.D	CLP-2 0.53(mm)
STD05 240-133461/21 IC		06/05/2014 16:45	1		CLP-1 0.53(mm)
STD05 240-133461/21 IC		06/05/2014 16:45	1	P1100021.D	CLP-2 0.53(mm)
STD1 240-133461/22 IC		06/05/2014 16:59	1		CLP-1 0.53(mm)
STD1 240-133461/22 IC		06/05/2014 16:59	1	P1100022.D	CLP-2 0.53(mm)
STD2 240-133461/23 IC		06/05/2014 17:14	1		CLP-1 0.53(mm)
STD2 240-133461/23 IC		06/05/2014 17:14	1	P1100023.D	CLP-2 0.53(mm)
STD0025 240-133461/24 IC		06/05/2014 17:28	1		CLP-1 0.53(mm)
STD0025 240-133461/24 IC		06/05/2014 17:28	1	P1100024.D	CLP-2 0.53(mm)
STD005 240-133461/25 IC		06/05/2014 17:42	1		CLP-1 0.53(mm)
STD005 240-133461/25 IC		06/05/2014 17:42	1	P1100025.D	CLP-2 0.53(mm)
STD01 240-133461/26 IC		06/05/2014 17:56	1		CLP-1 0.53(mm)
STD01 240-133461/26 IC		06/05/2014 17:56	1	P1100026.D	CLP-2 0.53(mm)
STD02 240-133461/27 IC		06/05/2014 18:11	1		CLP-1 0.53(mm)
STD02 240-133461/27 IC		06/05/2014 18:11	1	P1100027.D	CLP-2 0.53(mm)
STD05 240-133461/28 IC		06/05/2014 18:25	1		CLP-1 0.53(mm)
STD05 240-133461/28 IC		06/05/2014 18:25	1	P1100028.D	CLP-2 0.53(mm)
STD1 240-133461/29 IC		06/05/2014 18:39	1		CLP-1 0.53(mm)
STD1 240-133461/29 IC		06/05/2014 18:39	1	P1100029.D	CLP-2 0.53(mm)
STD2 240-133461/30 IC		06/05/2014 18:54	1		CLP-1 0.53(mm)
STD2 240-133461/30 IC		06/05/2014 18:54	1	P1100030.D	CLP-2 0.53(mm)
STD0025 240-133461/31 IC		06/05/2014 19:08	1		CLP-1 0.53(mm)
STD0025 240-133461/31 IC		06/05/2014 19:08	1	P1100031.D	CLP-2 0.53(mm)
STD005 240-133461/32 IC		06/05/2014 19:22	1		CLP-1 0.53(mm)
STD005 240-133461/32 IC		06/05/2014 19:22	1	P1100032.D	CLP-2 0.53(mm)
STD01 240-133461/33 IC		06/05/2014 19:37	1		CLP-1 0.53(mm)
STD01 240-133461/33 IC		06/05/2014 19:37	1	P1100033.D	CLP-2 0.53(mm)
STD02 240-133461/34 IC		06/05/2014 19:51	1		CLP-1 0.53(mm)
STD02 240-133461/34 IC		06/05/2014 19:51	1	P1100034.D	CLP-2 0.53(mm)

PESTICIDES/PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP11 Start Date: 06/05/2014 12:28

Analysis Batch Number: 133461 End Date: 06/06/2014 00:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD05 240-133461/35 ICRT		06/05/2014 20:05	1		CLP-1 0.53(mm)
STD05 240-133461/35 ICRT		06/05/2014 20:05	1	P1100035.D	CLP-2 0.53(mm)
STD1 240-133461/36 IC		06/05/2014 20:20	1		CLP-1 0.53(mm)
STD1 240-133461/36 IC		06/05/2014 20:20	1	P1100036.D	CLP-2 0.53(mm)
STD2 240-133461/37 IC		06/05/2014 20:34	1		CLP-1 0.53(mm)
STD2 240-133461/37 IC		06/05/2014 20:34	1	P1100037.D	CLP-2 0.53(mm)
STD0025 240-133461/38 IC		06/05/2014 20:48	1		CLP-1 0.53(mm)
STD0025 240-133461/38 IC		06/05/2014 20:48	1	P1100038.D	CLP-2 0.53(mm)
STD005 240-133461/39 IC		06/05/2014 21:02	1		CLP-1 0.53(mm)
STD005 240-133461/39 IC		06/05/2014 21:02	1	P1100039.D	CLP-2 0.53(mm)
STD01 240-133461/40 IC		06/05/2014 21:16	1		CLP-1 0.53(mm)
STD01 240-133461/40 IC		06/05/2014 21:16	1	P1100040.D	CLP-2 0.53(mm)
STD02 240-133461/41 IC		06/05/2014 21:31	1		CLP-1 0.53(mm)
STD02 240-133461/41 IC		06/05/2014 21:31	1	P1100041.D	CLP-2 0.53(mm)
STD05 240-133461/42 IC		06/05/2014 21:45	1		CLP-1 0.53(mm)
STD05 240-133461/42 IC		06/05/2014 21:45	1	P1100042.D	CLP-2 0.53(mm)
STD1 240-133461/43 IC		06/05/2014 21:59	1		CLP-1 0.53(mm)
STD1 240-133461/43 IC		06/05/2014 21:59	1	P1100043.D	CLP-2 0.53(mm)
STD2 240-133461/44 IC		06/05/2014 22:14	1		CLP-1 0.53(mm)
STD2 240-133461/44 IC		06/05/2014 22:14	1	P1100044.D	CLP-2 0.53(mm)
STD0025 240-133461/45 IC		06/05/2014 22:28	1		CLP-1 0.53(mm)
STD0025 240-133461/45 IC		06/05/2014 22:28	1	P1100045.D	CLP-2 0.53(mm)
STD005 240-133461/46 IC		06/05/2014 22:42	1		CLP-1 0.53(mm)
STD005 240-133461/46 IC		06/05/2014 22:42	1	P1100046.D	CLP-2 0.53(mm)
STD01 240-133461/47 IC		06/05/2014 22:57	1		CLP-1 0.53(mm)
STD01 240-133461/47 IC		06/05/2014 22:57	1	P1100047.D	CLP-2 0.53(mm)
STD02 240-133461/48 IC		06/05/2014 23:11	1		CLP-1 0.53(mm)
STD02 240-133461/48 IC		06/05/2014 23:11	1	P1100048.D	CLP-2 0.53(mm)
STD05 240-133461/49 IC		06/05/2014 23:25	1		CLP-1 0.53(mm)
STD05 240-133461/49 IC		06/05/2014 23:25	1	P1100049.D	CLP-2 0.53(mm)
STD1 240-133461/50 IC		06/05/2014 23:40	1		CLP-1 0.53(mm)

PESTICIDES/PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP11 Start Date: 06/05/2014 12:28

Analysis Batch Number: 133461 End Date: 06/06/2014 00:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 240-133461/50 IC		06/05/2014 23:40	1	P1100050.D	CLP-2 0.53(mm)
STD2 240-133461/51 IC		06/05/2014 23:54	1		CLP-1 0.53(mm)
STD2 240-133461/51 IC		06/05/2014 23:54	1	P1100051.D	CLP-2 0.53(mm)
ICV 240-133461/52		06/06/2014 00:08	1		CLP-1 0.53(mm)
ICV 240-133461/52		06/06/2014 00:08	1	P1100052.D	CLP-2 0.53(mm)

PESTICIDES/PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: A2HP11 Start Date: 01/05/2015 13:30

Analysis Batch Number: 163212 End Date: 01/05/2015 14:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 240-163212/3 CCVRT		01/05/2015 13:30	1		CLP-1 0.53(mm)
CCV 240-163212/3 CCVRT		01/05/2015 13:30	1	P1100003.D	CLP-2 0.53(mm)
ZZZZZ		01/05/2015 13:44	1		CLP-1 0.53(mm)
240-45978-2	DSP-2-123014 (COMP)	01/05/2015 13:44	1	P1100004.D	CLP-2 0.53(mm)
ZZZZZ		01/05/2015 13:58	1		CLP-1 0.53(mm)
ZZZZZ		01/05/2015 13:58	1		CLP-2 0.53(mm)
ZZZZZ		01/05/2015 14:12	1		CLP-1 0.53(mm)
ZZZZZ		01/05/2015 14:12	1		CLP-2 0.53(mm)
ZZZZZ		01/05/2015 14:26	1		CLP-1 0.53(mm)
MB 240-163143/4-A		01/05/2015 14:26	1	P1100007.D	CLP-2 0.53(mm)
ZZZZZ		01/05/2015 14:40	1		CLP-1 0.53(mm)
LCS 240-163143/5-A		01/05/2015 14:40	1	P1100008.D	CLP-2 0.53(mm)
CCV 240-163212/9		01/05/2015 14:54	1		CLP-1 0.53(mm)
CCV 240-163212/9		01/05/2015 14:54	1	P1100009.D	CLP-2 0.53(mm)

PESTICIDES/PCBS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163143 Batch Start Date: 01/05/15 06:55 Batch Analyst: Border, Elizabeth

Batch Method: 608 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	ReceivedpH	InitialAmount	FinalAmount	EX10PPMSPK 00014	EX2/.2SURRW 00047
240-45978-F-2	DSP-2-123014 (COMP)	608, 608	T	9 SU	5 SU	1050 mL	5 mL		1 mL
MB 240-163143/4		608, 608			7 SU	1000 mL	5 mL		1 mL
LCS 240-163143/5		608, 608			7 SU	1000 mL	5 mL	0.5 mL	1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
240-45978-F-2	DSP-2-123014 (COMP)	608, 608	T	associated w/163139					
MB 240-163143/4		608, 608		associated w/163139					
LCS 240-163143/5		608, 608							

Batch Notes	
Exchange Solvent Lot #	1814177
Na2SO4 Lot Number	1555584
Prep Solvent Lot #	1826835

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG No.:

Project: MRC Block E MPE System O&M

Client Sample ID	Lab Sample ID
DSP-2-123014 (COMP)	240-45978-2

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: DSP-2-123014 (COMP) Lab Sample ID: 240-45978-2

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG ID.:

Matrix: Water Date Sampled: 12/30/2014 10:40

Reporting Basis: WET Date Received: 12/31/2014 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7439-97-6	Mercury	0.090	0.20	0.090	ug/L	U		1	7470A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - TOTAL RECOVERABLE

Client Sample ID: DSP-2-123014 (COMP) Lab Sample ID: 240-45978-2

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG ID.:

Matrix: Water Date Sampled: 12/30/2014 10:40

Reporting Basis: WET Date Received: 12/31/2014 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7440-22-4	Silver	1.2	10	0.92	ug/L	J	B	1	6010C
7440-43-9	Cadmium	0.14	5.0	0.14	ug/L	U		1	6010C
7440-47-3	Chromium	0.55	10	0.55	ug/L	U		1	6010C
7440-50-8	Copper	1.9	25	1.9	ug/L	U		1	6010C
7440-02-0	Nickel	37	40	0.76	ug/L	J		1	6010C
7439-92-1	Lead	1.9	10	1.9	ug/L	U		1	6010C
7440-66-6	Zinc	93	50	9.6	ug/L			1	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

ICV Source: MT6500ICV_00022 Concentration Units: ug/L

CCV Source: MTICPCCV_00037

Analyte	ICV 240-163292/4 01/06/2015 05:07				CCV 240-163292/99 01/06/2015 11:31				CCV 240-163292/111 01/06/2015 12:19			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Cadmium	387		375	103	519		500	104	517		500	103
Chromium	1450		1500	96	2000		2000	100	1990		2000	100
Copper	1480		1500	99	2180		2000	109	2160		2000	108
Lead	380		375	101	485		500	97	487		500	97
Nickel	1510		1500	100	1950		2000	97	1950		2000	98
Silver	748		750	100	1090		1000	109	1080		1000	108
Zinc	1560		1500	104	1890		2000	94	1900		2000	95

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 Canton Job No.: 240-45978-1

SDG No.:

ICV Source: MTHgStd_00011 Concentration Units: ug/L

CCV Source: MTHGCALW_00804

Analyte	ICV 240-163240/7-A 01/06/2015 08:56				CCV 240-163240/10-A 01/06/2015 11:18				CCV 240-163240/10-A 01/06/2015 11:39			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	5.12		5.00	102	5.07		5.00	101	5.13		5.00	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 Canton Job No.: 240-45978-1

SDG No.:

ICV Source: MTHgStd_00011 Concentration Units: ug/L

CCV Source: MTHGCALW_00804

Analyte	CCV 240-163240/10-A 01/06/2015 11:59											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	4.80		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.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Method: 6010C Instrument ID: I9

Lab Sample ID: CRI 240-163292/65 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00024

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	10.0	11.2		112	70-130
Cadmium	5.00	5.05		101	70-130
Chromium	10.0	10.8		108	70-130
Copper	20.0	15.7	J	79	70-130
Nickel	40.0	37.3	J	93	70-130
Lead	10.0	8.30	J	83	70-130
Zinc	50.0	46.3	J	93	70-130

Lab Sample ID: CRI 240-163292/114 Concentration Units: ug/L

CRQL Check Standard Source: MTTRCRIC_00024

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Silver	10.0	11.5		115	70-130
Cadmium	5.00	5.07		101	70-130
Chromium	10.0	10.8		108	70-130
Copper	20.0	16.4	J	82	70-130
Nickel	40.0	38.4	J	96	70-130
Lead	10.0	9.76	J	98	70-130
Zinc	50.0	46.7	J	93	70-130

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Method: 7470A Instrument ID: H1

Lab Sample ID: CRA 240-163240/9-A Concentration Units: ug/L

CRQL Check Standard Source: MTHGCALW_00804

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Mercury	0.200	0.177	J	89	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-163292/5 01/06/2015 05:11		CCB 240-163292/100 01/06/2015 11:35		CCB 240-163292/112 01/06/2015 12:23			
		Found	C	Found	C	Found	C	Found	C
Cadmium	5.0	0.14	U	0.14	U	0.14	U		
Chromium	10	0.55	U	0.55	U	0.55	U		
Copper	25	1.9	U	1.9	U	1.9	U		
Lead	10	1.9	U	1.9	U	1.9	U		
Nickel	40	0.76	U	0.76	U	0.76	U		
Silver	10	0.92	U	1.01	J	1.02	J		
Zinc	50	9.6	U	9.6	U	9.6	U		

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Concentration Units: ug/L

Analyte	RL	ICB 240-163240/8-A 01/06/2015 08:58		CCB 240-163240/11-A 01/06/2015 11:21		CCB 240-163240/11-A 01/06/2015 11:40		CCB 240-163240/11-A 01/06/2015 12:00	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.20	0.090	U	0.090	U	0.090	U	0.090	U

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-163105/1-A

Instrument Code: I9 Batch No.: 163292

CAS No.	Analyte	Concentration	C	Q	Method
7440-22-4	Silver	1.30	J		6010C
7440-43-9	Cadmium	0.14	U		6010C
7440-47-3	Chromium	0.55	U		6010C
7440-50-8	Copper	1.9	U		6010C
7440-02-0	Nickel	0.76	U		6010C
7439-92-1	Lead	1.9	U		6010C
7440-66-6	Zinc	9.6	U		6010C

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Concentration Units: ug/L Lab Sample ID: MB 240-163106/1-A

Instrument Code: H1 Batch No.: 163340

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	0.090	U		7470A

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: ICSA 240-163292/8 Instrument ID: I9

Lab File ID: I9010615A.asc ICS Source: MTTRICSAW_00025

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Cadmium		**0.544**	
Chromium		**4.06**	
Copper		**-0.503**	
Lead		**3.37**	
Nickel		**3.05**	
Silver		**0.705**	
Zinc		**7.27**	
Aluminum	*500000*	*502110*	*100*
Antimony		*-4.11*	
Arsenic		*3.28*	
Barium		*0.0142*	
Beryllium		*-0.141*	
Boron		*-4.20*	
Calcium	*500000*	*484540*	*97*
Cobalt		*-0.734*	
Iron	*200000*	*193100*	*97*
Lithium		*36.7*	
Magnesium	*500000*	*482520*	*97*
Manganese		*0.839*	
Molybdenum		*-2.18*	
Potassium		*172*	
Selenium		*-3.61*	
Silicon		*-0.0166*	
Sodium		*43.5*	
Strontium		*11.0*	
Thallium		*3.64*	
Tin		*0.777*	
Titanium		*-0.383*	
Vanadium		*-0.689*	

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 Canton Job No.: 240-45978-1

SDG No.:

Lab Sample ID: ICSAB 240-163292/9 Instrument ID: I9

Lab File ID: I9010615A.asc ICS Source: MTICPICSABW_00006

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Found Percent Recovery
Cadmium	**1000**	**1035**	**104**
Chromium	**500**	**484**	**97**
Copper	**500**	**551**	**110**
Lead	**1000**	**927**	**93**
Nickel	**1000**	**961**	**96**
Silver	**1000**	**1098**	**110**
Zinc	**1000**	**940**	**94**
Aluminum	*500000*	*504160*	*101*
Antimony	*1000*	*1014*	*101*
Arsenic	*1000*	*1002*	*100*
Barium	*500*	*496*	*99*
Beryllium	*500*	*460*	*92*
Boron	*500*	*510*	*102*
Calcium	*500000*	*484230*	*97*
Cobalt	*500*	*480*	*96*
Iron	*200000*	*193700*	*97*
Lithium	*500*	*520*	*104*
Magnesium	*500000*	*475330*	*95*
Manganese	*500*	*507*	*101*
Molybdenum	*1000*	*970*	*97*
Potassium	*10000*	*10213*	*102*
Selenium	*1000*	*1010*	*101*
Silicon	*10000*	*9887*	*99*
Sodium	*10000*	*10078*	*101*
Strontium	*1500*	*1396*	*93*
Thallium	*1000*	*965*	*96*
Tin	*500*	*486*	*97*
Titanium	*500*	*491*	*98*
Vanadium	*500*	*482*	*96*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 240-45955-C-1-E MS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	1.04		0.14	J	1.00	89	80-120		7470A

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: Lab ID: 240-45955-C-1-F MSD

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water Concentration Units: ug/L

% Solids:

Analyte	(SDR) C		Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	1.05		1.00	91	80-120	1	20		7470A

SDR = Sample Duplicate Result

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

FORM VD - IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 240-163105/2-A

Lab Name: TestAmerica Canton Job No.: 240-45978-1

Sample Matrix: Water LCS Source: MTAGSPIKEW_00045

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Silver	50.0	54.7		109	80	120		6010C
Cadmium	50.0	50.3		101	80	120		6010C
Chromium	200	190		95	80	120		6010C
Copper	250	253		101	80	120		6010C
Nickel	500	460		92	80	120		6010C
Lead	500	461		92	80	120		6010C
Zinc	500	446		89	80	120		6010C

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 240-163106/2-A

Lab Name: TestAmerica Canton Job No.: 240-45978-1

Sample Matrix: Water LCS Source: MTHGCALW_00803

Analyte	Water(ug/L)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.00	4.79		96	80	120		7470A

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

FORM VIIA - IN

9-IN
DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: I9

Method: 6010C MDL Date: 09/09/2014 14:52

Prep Method: 3005A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Cadmium	226.502	5	0.14
Chromium	267.716	10	0.55
Copper	324.753	25	1.9
Lead	220.353	10	1.9
Nickel	231.604	40	0.76
Silver	328.068	10	0.92
Zinc	213.856	50	9.6

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS - TOTAL RECOVERABLE

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: I9

Method: 6010C XMDL Date: 09/09/2014 14:52

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Cadmium	226.502	5	0.14
Chromium	267.716	10	0.55
Copper	324.753	25	1.9
Lead	220.353	10	1.9
Nickel	231.604	40	0.76
Silver	328.068	10	0.92
Zinc	213.856	50	9.6

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A MDL Date: 12/03/2014 00:00

Prep Method: 7470A

Analyte	Wavelength/ Mass	RL (ug/L)	MDL (ug/L)
Mercury	253.7	0.2	0.09

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: H1

Method: 7470A XMDL Date: 09/17/2014 14:07

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Mercury	253.7	0.2	0.09

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG No.:

ICP-AES Instrument ID: I9 Date: 09/24/2014

Analyte	Wave Length	Al	As	Ca	Co	Cr	Cu	Fe	Mn	Mo	Ni	Si	Ti	Tl	V
Aluminum										0.010824					0.030943
Antimony		-0.000095			-0.000220			-0.000037							0.002984
Arsenic		0.000023			-0.001064	0.000536			-0.000355	0.001157					
Barium															
Beryllium															0.000470
Boron															
Cadmium			0.007748					-0.000000							
Calcium															
Chromium															
Cobalt													0.001852		
Copper				0.000023	0.000140			0.000007							
Iron															
Lead		-0.000126					0.000068	0.000042			0.000321	0.000060			
Lithium				0.000010											
Magnesium															
Manganese															
Molybdenum															
Nickel					0.000518			0.000071							
Potassium															
Selenium									0.000338						
Silver															
Sodium															
Strontium															
Thallium					0.005293				0.001238				-0.000905		-0.002568
Tin															
Titanium															
Vanadium								0.000026							
Zinc						-0.000592									

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-45978-1

SDG No.:

Instrument ID: I9 Date: 09/24/2014 13:00

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Silver		2000	6010C
Cadmium		2000	6010C
Chromium		20000	6010C
Copper		30000	6010C
Nickel		30000	6010C
Lead		15000	6010C
Zinc		10000	6010C

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Canton Job No: 240-45978-1

SDG No.:

Instrument ID: H1 Date: 12/10/2013 15:54

Analyte	Integ. Time (Sec.)	Concentration (ppb)	Method
Mercury		10	7470A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Prep Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-163105/1-A	01/02/2015 12:38	163105		50	50
LCS 240-163105/2-A	01/02/2015 12:38	163105		50	50
240-45978-2	01/02/2015 12:38	163105		50	50

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Prep Method: 7470A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-163106/1-A	01/02/2015 13:40	163106		50	50
LCS 240-163106/2-A	01/02/2015 13:40	163106		50	50
240-45955-C-1-E MS	01/02/2015 13:40	163106		50	50
240-45955-C-1-F MSD	01/02/2015 13:40	163106		50	50
240-45978-2	01/02/2015 13:40	163106		50	50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 01/06/2015 04:55 End Date: 01/06/2015 18:14

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
ICIS 240-163292/1	1		04:55	X	X	X	X	X	X	X													
CALSTD 240-163292/2 IC			04:59	X	X	X	X	X	X	X													
CALSTD 240-163292/3 IC			05:03	X	X	X	X	X	X	X													
ICV 240-163292/4	1		05:07	X	X	X	X	X	X	X													
ICB 240-163292/5	1		05:11	X	X	X	X	X	X	X													
CRI 240-163292/6			05:15																				
ZZZZZZ			05:19																				
ICSA 240-163292/8	1		05:23	X	X	X	X	X	X	X													
ICSAB 240-163292/9	1		05:27	X	X	X	X	X	X	X													
CCV 240-163292/10			05:31																				
CCB 240-163292/11			05:35																				
ZZZZZZ			05:39																				
ZZZZZZ			05:43																				
ZZZZZZ			05:47																				
ZZZZZZ			05:51																				
ZZZZZZ			05:55																				
ZZZZZZ			05:59																				
CCV 240-163292/18			06:04																				
CCB 240-163292/19			06:07																				
ZZZZZZ			06:14																				
ZZZZZZ			06:18																				
ZZZZZZ			06:22																				
ZZZZZZ			06:26																				
ZZZZZZ			06:30																				
ZZZZZZ			06:33																				
ZZZZZZ			06:37																				
ZZZZZZ			06:41																				
ZZZZZZ			06:45																				
ZZZZZZ			06:49																				
CCV 240-163292/30			06:53																				
CCB 240-163292/31			06:57																				
ZZZZZZ			07:01																				
ZZZZZZ			07:05																				
CCV 240-163292/34			07:09																				
CCB 240-163292/35			07:13																				
ZZZZZZ			07:17																				
ZZZZZZ			07:21																				
ZZZZZZ			07:25																				
ZZZZZZ			07:29																				
ZZZZZZ			07:33																				
ZZZZZZ			07:37																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 01/06/2015 04:55 End Date: 01/06/2015 18:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
CCV 240-163292/42			07:41																				
CCB 240-163292/43			07:45																				
ZZZZZZ			07:49																				
ZZZZZZ			07:54																				
ZZZZZZ			07:58																				
ZZZZZZ			08:02																				
ZZZZZZ			08:06																				
ZZZZZZ			08:11																				
ZZZZZZ			08:15																				
ZZZZZZ			08:19																				
ZZZZZZ			08:23																				
ZZZZZZ			08:27																				
CCV 240-163292/54			08:31																				
CCB 240-163292/55			08:35																				
ZZZZZZ			08:39																				
ZZZZZZ			08:43																				
ZZZZZZ			08:47																				
ZZZZZZ			08:50																				
ZZZZZZ			08:54																				
ZZZZZZ			08:59																				
ZZZZZZ			09:03																				
CCV 240-163292/63			09:07																				
CCB 240-163292/64			09:10																				
CRI 240-163292/65	1		09:14	X	X	X	X	X	X	X													
ZZZZZZ			09:18																				
ZZZZZZ			09:23																				
ZZZZZZ			09:27																				
ZZZZZZ			09:30																				
ZZZZZZ			09:35																				
ZZZZZZ			09:39																				
ZZZZZZ			09:43																				
ZZZZZZ			09:47																				
ZZZZZZ			09:51																				
CCV 240-163292/75			09:55																				
CCB 240-163292/76			09:58																				
ZZZZZZ			10:03																				
ZZZZZZ			10:07																				
ZZZZZZ			10:11																				
ZZZZZZ			10:15																				
ZZZZZZ			10:19																				
ZZZZZZ			10:23																				
ZZZZZZ			10:27																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 01/06/2015 04:55 End Date: 01/06/2015 18:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
ZZZZZZ			10:31																				
ZZZZZZ			10:35																				
ZZZZZZ			10:39																				
CCV 240-163292/87			10:43																				
CCB 240-163292/88			10:47																				
ZZZZZZ			10:51																				
ZZZZZZ			10:55																				
ZZZZZZ			10:59																				
ZZZZZZ			11:02																				
ZZZZZZ			11:06																				
ZZZZZZ			11:10																				
ZZZZZZ			11:14																				
ZZZZZZ			11:19																				
ZZZZZZ			11:23																				
ZZZZZZ			11:27																				
CCV 240-163292/99	1		11:31	X	X	X	X	X	X	X													
CCB 240-163292/100	1		11:35	X	X	X	X	X	X	X													
ZZZZZZ			11:39																				
MB 240-163105/1-A	1	R	11:43	X	X	X	X	X	X	X													
LCS 240-163105/2-A	1	R	11:47	X	X	X	X	X	X	X													
240-45978-2	1	R	11:51	X	X	X	X	X	X	X													
ZZZZZZ			11:55																				
ZZZZZZ			11:59																				
ZZZZZZ			12:03																				
ZZZZZZ			12:07																				
ZZZZZZ			12:11																				
ZZZZZZ			12:15																				
CCV 240-163292/111	1		12:19	X	X	X	X	X	X	X													
CCB 240-163292/112	1		12:23	X	X	X	X	X	X	X													
ZZZZZZ			12:27																				
CRI 240-163292/114	1		12:31	X	X	X	X	X	X	X													
ZZZZZZ			12:35																				
ZZZZZZ			12:39																				
ZZZZZZ			12:43																				
ZZZZZZ			12:47																				
ZZZZZZ			12:51																				
ZZZZZZ			12:55																				
ZZZZZZ			12:59																				
ZZZZZZ			13:03																				
CCV 240-163292/123			13:07																				
CCB 240-163292/124			13:11																				
ZZZZZZ			13:15																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 01/06/2015 04:55 End Date: 01/06/2015 18:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
ZZZZZZ			13:19																				
ZZZZZZ			13:23																				
ZZZZZZ			13:27																				
ZZZZZZ			13:31																				
CCV 240-163292/130			13:40																				
CCB 240-163292/131			13:44																				
ZZZZZZ			13:48																				
ZZZZZZ			13:52																				
ZZZZZZ			13:56																				
CCV 240-163292/135			14:00																				
CCB 240-163292/136			14:04																				
ZZZZZZ			14:08																				
ZZZZZZ			14:12																				
ZZZZZZ			14:16																				
ZZZZZZ			14:20																				
ZZZZZZ			14:24																				
ZZZZZZ			14:28																				
ZZZZZZ			14:32																				
ZZZZZZ			14:36																				
CRI 240-163292/145			14:40																				
ZZZZZZ			14:44																				
CCV 240-163292/147			14:48																				
CCB 240-163292/148			14:52																				
ZZZZZZ			15:10																				
ZZZZZZ			15:14																				
ZZZZZZ			15:18																				
ZZZZZZ			15:22																				
ZZZZZZ			15:26																				
ZZZZZZ			15:31																				
ZZZZZZ			15:35																				
ZZZZZZ			15:39																				
ZZZZZZ			15:43																				
ZZZZZZ			15:47																				
CCV 240-163292/159			15:51																				
CCB 240-163292/160			15:55																				
ZZZZZZ			15:59																				
ZZZZZZ			16:03																				
ZZZZZZ			16:07																				
ZZZZZZ			16:11																				
ZZZZZZ			16:15																				
ZZZZZZ			16:19																				
ZZZZZZ			16:23																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: I9 Method: 6010C

Start Date: 01/06/2015 04:55 End Date: 01/06/2015 18:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				Ag	Cd	Cr	Cu	Ni	Pb	Zn													
ZZZZZZ			16:27																				
ZZZZZZ			16:31																				
ZZZZZZ			16:35																				
CCV 240-163292/171			16:39																				
CCB 240-163292/172			16:43																				
ZZZZZZ			16:47																				
ZZZZZZ			16:51																				
ZZZZZZ			16:55																				
ZZZZZZ			16:59																				
ZZZZZZ			17:03																				
ZZZZZZ			17:07																				
ZZZZZZ			17:12																				
ZZZZZZ			17:15																				
ZZZZZZ			17:20																				
ZZZZZZ			17:24																				
CCV 240-163292/183			17:28																				
CCB 240-163292/184			17:32																				
ZZZZZZ			17:36																				
ZZZZZZ			17:40																				
ZZZZZZ			17:44																				
ZZZZZZ			17:49																				
ZZZZZZ			17:53																				
ZZZZZZ			17:57																				
ZZZZZZ			18:01																				
ZZZZZZ			18:05																				
CCV 240-163292/193			18:10																				
CCB 240-163292/194			18:14																				

Prep Types

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 01/06/2015 08:44 End Date: 01/06/2015 13:06

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
IC 240-163240/1-A			08:44	X																			
IC 240-163240/2-A			08:46	X																			
IC 240-163240/3-A			08:47	X																			
IC 240-163240/4-A			08:49	X																			
IC 240-163240/5-A			08:50	X																			
IC 240-163240/6-A			08:52	X																			
ICV 240-163240/7-A	1		08:56	X																			
ICB 240-163240/8-A	1		08:58	X																			
CRA 240-163240/9-A	1		08:59	X																			
CCV 240-163240/10-A	1		11:18	X																			
CCB 240-163240/11-A	1		11:21	X																			
MB 240-163106/1-A	1	T	11:22	X																			
LCS 240-163106/2-A	1	T	11:24	X																			
ZZZZZZ			11:26																				
240-45955-C-1-E MS	1	T	11:28	X																			
240-45955-C-1-F MSD	1	T	11:29	X																			
ZZZZZZ			11:31																				
ZZZZZZ			11:32																				
ZZZZZZ			11:34																				
ZZZZZZ			11:35																				
ZZZZZZ			11:37																				
CCV 240-163240/10-A	1		11:39	X																			
CCB 240-163240/11-A	1		11:40	X																			
ZZZZZZ			11:42																				
ZZZZZZ			11:45																				
240-45978-2	1	T	11:46	X																			
ZZZZZZ			11:48																				
ZZZZZZ			11:49																				
ZZZZZZ			11:51																				
ZZZZZZ			11:52																				
ZZZZZZ			11:54																				
ZZZZZZ			11:55																				
ZZZZZZ			11:57																				
CCV 240-163240/10-A	1		11:59	X																			
CCB 240-163240/11-A	1		12:00	X																			
ZZZZZZ			12:02																				
ZZZZZZ			12:04																				
ZZZZZZ			12:06																				
ZZZZZZ			12:07																				
ZZZZZZ			12:09																				
ZZZZZZ			12:10																				
ZZZZZZ			12:12																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: H1 Method: 7470A

Start Date: 01/06/2015 08:44 End Date: 01/06/2015 13:06

Lab Sample ID	D / F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			12:14																				
ZZZZZZ			12:15																				
ZZZZZZ			12:17																				
CCV 240-163240/10-A			12:18																				
CCB 240-163240/11-A			12:20																				
ZZZZZZ			12:21																				
ZZZZZZ			12:23																				
ZZZZZZ			12:24																				
ZZZZZZ			12:27																				
ZZZZZZ			12:28																				
ZZZZZZ			12:30																				
ZZZZZZ			12:31																				
ZZZZZZ			12:34																				
ZZZZZZ			12:36																				
ZZZZZZ			12:37																				
CCV 240-163240/10-A			12:39																				
CCB 240-163240/11-A			12:42																				
ZZZZZZ			12:43																				
ZZZZZZ			12:45																				
ZZZZZZ			12:46																				
ZZZZZZ			12:48																				
ZZZZZZ			12:50																				
CCV 240-163240/10-A			12:53																				
CCB 240-163240/11-A			12:55																				
ZZZZZZ			12:56																				
ZZZZZZ			12:57																				
ZZZZZZ			12:59																				
ZZZZZZ			13:01																				
CRA 240-163240/9-A			13:03																				
CCV 240-163240/10-A			13:05																				
CCB 240-163240/11-A			13:06																				

Prep Types

T = Total/NA

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163105 Batch Start Date: 01/02/15 12:38 Batch Analyst: Sutherland, Aaron

Batch Method: 3005A Batch End Date: 01/02/15 20:38

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTAGSPIKEW 00045	MTICP1 00036	MTICP2A 00045	MTTMHCL 00054
MB 240-163105/1		3005A, 6010C		50 mL	50 mL				2.5 mL
LCS 240-163105/2		3005A, 6010C		50 mL	50 mL	1 mL	1 mL	1 mL	2.5 mL
240-45978-A-2	DSP-2-123014 (COMP)	3005A, 6010C	R	50 mL	50 mL				2.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00046					
MB 240-163105/1		3005A, 6010C		1 mL					
LCS 240-163105/2		3005A, 6010C		1 mL					
240-45978-A-2	DSP-2-123014 (COMP)	3005A, 6010C	R	1 mL					

Batch Notes	
Filter Paper Lot Number	9592070
Hot Block ID number	hb2
Pipette ID	383364
Digestion Tube/Cup Lot #	1408268

Basis	Basis Description
R	Total Recoverable

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163106 Batch Start Date: 01/02/15 13:40 Batch Analyst: Sutherland, Aaron

Batch Method: 7470A Batch End Date: 01/02/15 15:40

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	K2S2O8 00017	MTH2S04 00021	MTHGCALW 00803	MTKMN04W 00076
MB 240-163106/1		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL		7.5 mL
LCS 240-163106/2		7470A, 7470A		50 mL	50 mL	4 mL	2.5 mL	2.5 mL	7.5 mL
240-45955-C-1 MS		7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-45955-C-1 MSD		7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL	0.5 mL	7.5 mL
240-45978-A-2	DSP-2-123014 (COMP)	7470A, 7470A	T	50 mL	50 mL	4 mL	2.5 mL		7.5 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTTMHNO3 00046
MB 240-163106/1		7470A, 7470A		1.25 mL
LCS 240-163106/2		7470A, 7470A		1.25 mL
240-45955-C-1 MS		7470A, 7470A	T	1.25 mL
240-45955-C-1 MSD		7470A, 7470A	T	1.25 mL
240-45978-A-2	DSP-2-123014 (COMP)	7470A, 7470A	T	1.25 mL

Batch Notes	
Hot Block ID number	c1
Pipette ID	383363-383366
Digestion Tube/Cup Lot #	1406020

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163240 Batch Start Date: 01/05/15 09:10 Batch Analyst: Martin, Aaron

Batch Method: 7470A Batch End Date: 01/05/15 11:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	MTH2S04 00021	MTHGCALW 00804	MTHgStd 00011	MTK2S208RGNT 00054
ICV 240-163240/7		7470A, 7470A		50 mL	50 mL	2.5 mL		0.25 mL	4 mL
ICB 240-163240/8		7470A, 7470A		50 mL	50 mL	2.5 mL			4 mL
CRA 240-163240/9		7470A, 7470A		50 mL	50 mL	2.5 mL	0.1 mL		4 mL
CCV 240-163240/10		7470A, 7470A		50 mL	50 mL	2.5 mL	2.5 mL		4 mL
CCB 240-163240/11		7470A, 7470A		50 mL	50 mL	2.5 mL			4 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	MTKMN04W 00076	MTTMHNO3 00047				
ICV 240-163240/7		7470A, 7470A		7.5 mL	1.25 mL				
ICB 240-163240/8		7470A, 7470A		7.5 mL	1.25 mL				
CRA 240-163240/9		7470A, 7470A		7.5 mL	1.25 mL				
CCV 240-163240/10		7470A, 7470A		7.5 mL	1.25 mL				
CCB 240-163240/11		7470A, 7470A		7.5 mL	1.25 mL				

Batch Notes	
Hot Block ID number	B1
Pipette ID	383364-383366
Digestion Tube/Cup Lot #	1404096

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG No.:

Project: MRC Block E MPE System O&M

Client Sample ID	Lab Sample ID
DSP-2-123014 (GRAB)	240-45978-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DSP-2-123014 (GRAB) Lab Sample ID: 240-45978-1

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG ID.:

Matrix: Water Date Sampled: 12/30/2014 10:40

Reporting Basis: WET Date Received: 12/31/2014 11:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
57-12-5	Cyanide, Total	0.0020	0.010	0.0020	mg/L	U		1	SM 4500 CN E
	Chemical Oxygen Demand	5.2	10	5.1	mg/L	J		1	5220D-1997
7723-14-0	Total Phosphorus as P	0.050	0.10	0.050	mg/L	U		1	SM4500 P E-1999
	HEM (Oil & Grease)	0.97	4.7	0.97	mg/L	U		1	1664A
	SGT-HEM	1.1	4.7	1.1	mg/L	U		1	1664A
	Biochemical Oxygen Demand	2.0	2.0	2.0	mg/L	U		1	5210B-2001
	Total Suspended Solids	1.8	4.0	1.8	mg/L	U		1	SM 2540D
	Nitrogen, Kjeldahl	1.7	5.0	1.7	mg/L	U		1	SM4500_NH3_C
	pH	7.32	0.100	0.100	SU		HF	1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Analyst: SEM Batch Start Date: 01/02/2015

Reporting Units: mg/L Analytical Batch No.: 163113

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
4	ICV	12:27	Cyanide, Total	0.0998	0.100	100	90-110		WCCN.1ICV2_00192
5	ICB	12:27	Cyanide, Total	0.0020				U	
7	CCV	13:08	Cyanide, Total	0.103	0.100	103	90-110		WCCN.1CCV1_00186
8	CCB	13:09	Cyanide, Total	0.0020				U	
19	CCV	13:14	Cyanide, Total	0.102	0.100	102	90-110		WCCN.1CCV1_00186
20	CCB	13:14	Cyanide, Total	0.0020				U	

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Analyst: TPH Batch Start Date: 01/07/2015

Reporting Units: mg/L Analytical Batch No.: 163422

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
7	ICV	11:39	Chemical Oxygen Demand	66.7	68.0	98	90-110		COD LCS_00005
8	ICB	11:40	Chemical Oxygen Demand	5.1				U	
19	CCV	11:49	Chemical Oxygen Demand	51.4	50.0	103	90-110		WCCOD1000_00011
20	CCB	11:50	Chemical Oxygen Demand	5.1				U	
28	CCV	11:56	Chemical Oxygen Demand	51.1	50.0	102	90-110		WCCOD1000_00011
29	CCB	11:57	Chemical Oxygen Demand	5.1				U	

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Analyst: TPH Batch Start Date: 01/06/2015

Reporting Units: mg/L Analytical Batch No.: 163351

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
10	CCV	13:14	Total Phosphorus as P	0.501	0.500	100	90-110		WCPHOS50PPM_00055
11	CCB	13:14	Total Phosphorus as P	0.050				U	
20	CCV	13:16	Total Phosphorus as P	0.500	0.500	100	90-110		WCPHOS50PPM_00055
21	CCB	13:16	Total Phosphorus as P	0.050				U	

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

FORM II-IN

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Analyst: LCN Batch Start Date: 12/31/2014

Reporting Units: SU Analytical Batch No.: 163027

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	13:25	pH	7.050	7.00	101	99-101		WCPH7_00042
6	CCV	13:37	pH	7.020	7.00	100	99-101		WCPH7_00042
11	CCV	15:16	pH	7.040	7.00	101	99-101		WCPH7_00042

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

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 163562	Date: 01/08/2015 08:28	Prep Batch: 163551	Date: 01/08/2015 08:28				
1664A	MB 240-163551/1-A	HEM (Oil & Grease)	1.0	U	mg/L	5.0	1
Batch ID: 163422	Date: 01/07/2015 11:41						
5220D-1997	MB 240-163422/9	Chemical Oxygen Demand	5.1	U	mg/L	10	1
Batch ID: 163172	Date: 01/05/2015 09:02						
SM 2540D	MB 240-163172/1	Total Suspended Solids	1.8	U	mg/L	4.0	1
Batch ID: 163113	Date: 01/02/2015 13:09	Prep Batch: 163068	Date: 01/02/2015 09:18				
SM 4500 CN E	MB 240-163068/1-A	Cyanide, Total	0.00219	J	mg/L	0.010	1
Batch ID: 163351	Date: 01/06/2015 13:14	Prep Batch: 163261	Date: 01/06/2015 06:11				
SM4500 P E-1999	MB 240-163261/10-A	Total Phosphorus as P	0.050	U	mg/L	0.10	1
Batch ID: 163488	Date: 01/07/2015 14:45	Prep Batch: 163330	Date: 01/06/2015 12:04				
SM4500_NH3_C	MB 240-163330/1-A	Nitrogen, Kjeldahl	1.7	U	mg/L	5.0	1

3-IN
UNSEEDED CONTROL BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 163028	Date: 12/31/2014 15:17						
5210B-2001	USB 240-163028/1	Biochemical Oxygen Demand	2.0	U	mg/L	2.0	1

FORM III-IN

3-IN
SEEDED CONTROL BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 163028	Date: 12/31/2014 15:18						
5210B-2001	SCB 240-163028/2	Biochemical Oxygen Demand	2.0	U	mg/L	2.0	1

FORM III-IN

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 163562	Date: 01/08/2015 08:28		Prep Batch: 163551		Date: 01/08/2015 08:28						
1664A	240-45927-I-1-A	HEM (Oil & Grease)	1.0	U	mg/L						
1664A	240-45927-I-1-A MS	HEM (Oil & Grease)	33.9		mg/L	41.2	82	78-114			
Batch ID: 163422	Date: 01/07/2015 11:54										
5220D-1997	240-46034-D-1	Chemical Oxygen Demand	7.5	J	mg/L						
5220D-1997	240-46034-D-1 MS	Chemical Oxygen Demand	69.2		mg/L	50.0	123	90-110			F1
Batch ID: 163113	Date: 01/02/2015 13:09		Prep Batch: 163068		Date: 01/02/2015 09:18						
SM 4500 CN E	240-45955-B-4-B	Cyanide, Total	0.0031	J	mg/L						B
SM 4500 CN E	240-45955-B-4-B MS	Cyanide, Total	0.0420		mg/L	0.0400	97	42-140			
Batch ID: 163351	Date: 01/06/2015 13:14		Prep Batch: 163261		Date: 01/06/2015 06:15						
SM4500 P E-1999	190-6152-B-1-F	Total Phosphorus as P	0.10		mg/L						
SM4500 P E-1999	190-6152-B-1-F MS	Total Phosphorus as P	0.593		mg/L	0.500	98	10-199			
Batch ID: 163488	Date: 01/07/2015 14:52		Prep Batch: 163330		Date: 01/06/2015 12:04						
SM4500_NH3_C	240-45978-1	Nitrogen, Kjeldahl	1.7	U	mg/L						
SM4500_NH3_C	240-45978-1 MS	Nitrogen, Kjeldahl	20.0		mg/L	20.0	100	10-200			

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

FORM V-IN

5-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 163113	Date: 01/02/2015 13:09		Prep Batch: 163068		Date: 01/02/2015 09:18						
SM 4500 CN E	240-45955-B-4 -C MSD	Cyanide, Total	0.0375		mg/L	0.0400	86	42-140	11	20	
Batch ID: 163351	Date: 01/06/2015 13:14		Prep Batch: 163261		Date: 01/06/2015 06:16						
SM4500 P E-1999	190-6152-B-1- G MSD	Total Phosphorus as P	0.386		mg/L	0.500	57	10-199	42	20	F2
Batch ID: 163488	Date: 01/07/2015 14:53		Prep Batch: 163330		Date: 01/06/2015 12:04						
SM4500_ NH3_C	240-45978-1 MSD	Nitrogen, Kjeldahl	18.8		mg/L	20.0	94	10-200	6	20	

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

FORM V-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 163027	Date: 12/31/2014 13:28							
4500 H+ B-2000		240-45960-B-1	pH	7.60	SU			
4500 H+ B-2000		240-45960-B-1 DU	pH	7.620	SU	0.3	20	
Batch ID: 163172	Date: 01/05/2015 09:02							
SM 2540D		240-46004-A-1	Total Suspended Solids	20	mg/L			
SM 2540D		240-46004-A-1 DU	Total Suspended Solids	22.0	mg/L	10	10	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 163562	Date: 01/08/2015 08:28		Prep Batch: 163551			Date: 01/08/2015 08:28					
						LCS Source: wchemlcs_00085					
1664A	LCS 240-163551/2-A	HEM (Oil & Grease)	34.7		mg/L	40.0	87	78-114			
Batch ID: 163027	Date: 12/31/2014 13:26										
						LCS Source: WCPHLCS_00010					
4500 H+ B-2000	LCS 240-163027/2	pH	6.260		SU	6.15	102	97-103			
Batch ID: 163028	Date: 12/31/2014 15:27										
						LCS Source: WCBODLCS_00035					
5210B-2001	LCS 240-163028/3	Biochemical Oxygen Demand	184		mg/L	198	93	85-115			
Batch ID: 163422	Date: 01/07/2015 11:42										
						LCS Source: COD LCS_00005					
5220D-1997	LCS 240-163422/10	Chemical Oxygen Demand	69.3		mg/L	68.0	102	90-110			
Batch ID: 163172	Date: 01/05/2015 09:02										
						LCS Source: WCWIBBYSOLIDS_00013					
SM 2540D	LCS 240-163172/2	Total Suspended Solids	17.0		mg/L	22.3	76	73-113			
Batch ID: 163113	Date: 01/02/2015 13:09		Prep Batch: 163068			Date: 01/02/2015 09:18					
						LCS Source: WCERAPHEN0L_00018					
SM 4500 CN E	LCS 240-163068/2-A	Cyanide, Total	0.0966		mg/L	0.0921	105	69-118			
Batch ID: 163351	Date: 01/06/2015 13:14		Prep Batch: 163261			Date: 01/06/2015 06:12					
						LCS Source: WCWIBBYNUTRIE_00021					
SM4500 P E-1999	LCS 240-163261/11-A	Total Phosphorus as P	0.310		mg/L	0.313	99	53-134			
Batch ID: 163488	Date: 01/07/2015 14:46		Prep Batch: 163330			Date: 01/06/2015 12:04					
						LCS Source: P194-525_00011					
SM4500_NH3_C	LCS 240-163330/2-A	Nitrogen, Kjeldahl	6.65		mg/L	7.77	86	65-144			

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

FORM VIIA-IN

7A-IN
METHOD REPORTING LIMIT CHECK
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 163113	Date: 01/02/2015 12:27										
						LCS Source:	WCCN.01MRL1_00171				
SM 4500 CN E	MRL 240-163113/6	Cyanide, Total	0.00973	J	mg/L	0.0100	97	70-130			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: SAURON

Method: SM 4500 CN E MDL Date: 07/09/2014 11:00

Prep Method: Distill/CN

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Cyanide, Total		0.01	0.002

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: SAURON

Method: SM 4500 CN E XMDL Date: 07/09/2014 11:01

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Cyanide, Total		0.01	0.002

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: ERNIE

Method: 5220D-1997 MDL Date: 06/04/2014 17:32

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Chemical Oxygen Demand		10	5.1

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: ERNIE

Method: 5220D-1997 XMDL Date: 06/04/2014 17:32

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Chemical Oxygen Demand		10	5.1

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: BARNEY

Method: SM4500 P E-1999 MDL Date: 07/09/2014 15:43

Prep Method: 365.2/365.3/365

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Phosphorus as P		0.1	0.05

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: BARNEY

Method: SM4500 P E-1999 XMDL Date: 07/09/2014 15:43

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Phosphorus as P		0.1	0.05

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 1664A MDL Date: 09/17/2014 09:15

Prep Method: 1664A

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
HEM (Oil & Grease)		5	1.03
SGT-HEM		5	1.12

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: 1664A XMDL Date: 09/17/2014 09:17

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
HEM (Oil & Grease)		5	1.03
SGT-HEM		5	1.12

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: Bugsy

Method: 5210B-2001 MDL Date: 01/27/2010 15:37

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: Bugsy

Method: 5210B-2001 XMDL Date: 01/27/2010 15:37

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Biochemical Oxygen Demand		2	2

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2540D MDL Date: 01/28/2010 09:47

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Total Suspended Solids		4	1.8

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM 2540D XMDL Date: 01/28/2010 09:48

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Total Suspended Solids		4	1.8

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM4500_NH3_C MDL Date: 07/30/2013 09:46

Prep Method: SM4500Norg_C

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrogen, Kjeldahl		5	1.7

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: NOEQUIP

Method: SM4500_NH3_C XMDL Date: 07/30/2013 09:49

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrogen, Kjeldahl		5	1.7

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-45978-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Prep Method: Distill/CN

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-163068/1-A	01/02/2015 09:18	163068		50	25
LCS 240-163068/2-A	01/02/2015 09:18	163068		50	25
240-45955-B-4-B MS	01/02/2015 09:18	163068		50	25
240-45955-B-4-C MSD	01/02/2015 09:18	163068		50	25
240-45978-1	01/02/2015 09:18	163068		50	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Prep Method: 365.2/365.3/365

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-163261/10-A	01/06/2015 06:11	163261		50	50
LCS 240-163261/11-A	01/06/2015 06:12	163261		50	50
190-6152-B-1-F MS	01/06/2015 06:15	163261		50	50
190-6152-B-1-G MSD	01/06/2015 06:16	163261		50	50
240-45978-1	01/06/2015 06:19	163261		50	50

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Prep Method: SM4500Norg_C

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-163330/1-A	01/06/2015 12:04	163330		25	25
LCS 240-163330/2-A	01/06/2015 12:04	163330		25	25
240-45978-1	01/06/2015 12:04	163330		25	25
240-45978-1 MS	01/06/2015 12:04	163330		25	25
240-45978-1 MSD	01/06/2015 12:04	163330		25	25

12-IN
PREPARATION LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Prep Method: 1664A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
MB 240-163551/1-A	01/08/2015 08:28	163551		1000	1000
LCS 240-163551/2-A	01/08/2015 08:28	163551		1000	1000
240-45927-I-1-A MS	01/08/2015 08:28	163551		971	1000
240-45978-1	01/08/2015 08:28	163551		1059	1000

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: SAURON Method: SM 4500 CN E

Start Date: 01/02/2015 12:25 End Date: 01/02/2015 13:19

Lab Sample ID	D / F	Type	Time	Analytes																				
				CN																				
ZZZZZZ			12:25																					
ZZZZZZ			12:25																					
ZZZZZZ			12:25																					
ICV 240-163113/4	1		12:27	X																				
ICB 240-163113/5	1		12:27	X																				
MRL 240-163113/6	1	T	12:27	X																				
CCV 240-163113/7	1		13:08	X																				
CCB 240-163113/8	1		13:09	X																				
MB 240-163068/1-A	1	T	13:09	X																				
LCS 240-163068/2-A	1	T	13:09	X																				
ZZZZZZ			13:09																					
240-45955-B-4-B MS	1	T	13:09	X																				
240-45955-B-4-C MSD	1	T	13:09	X																				
ZZZZZZ			13:09																					
ZZZZZZ			13:09																					
ZZZZZZ			13:09																					
ZZZZZZ			13:09																					
240-45978-1	1	T	13:09	X																				
CCV 240-163113/19	1		13:14	X																				
CCB 240-163113/20	1		13:14	X																				
ZZZZZZ			13:14																					
ZZZZZZ			13:14																					
ZZZZZZ			13:14																					
ZZZZZZ			13:14																					
ZZZZZZ			13:17																					
ZZZZZZ			13:17																					
CCV 240-163113/27			13:19																					
CCB 240-163113/28			13:19																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: ERNIE Method: 5220D-1997

Start Date: 01/07/2015 11:35 End Date: 01/07/2015 11:57

Lab Sample ID	D / F	Type	Time	Analytes																			
				COD																			
IC 240-163422/1			11:35	X																			
IC 240-163422/2			11:35	X																			
IC 240-163422/3			11:36	X																			
IC 240-163422/4			11:37	X																			
IC 240-163422/5			11:38	X																			
IC 240-163422/6			11:38	X																			
ICV 240-163422/7	2		11:39	X																			
ICB 240-163422/8	1		11:40	X																			
MB 240-163422/9	1	T	11:41	X																			
LCS 240-163422/10	2	T	11:42	X																			
ZZZZZZ			11:42																				
ZZZZZZ			11:43																				
ZZZZZZ			11:44																				
ZZZZZZ			11:45																				
ZZZZZZ			11:46																				
ZZZZZZ			11:46																				
ZZZZZZ			11:47																				
ZZZZZZ			11:48																				
CCV 240-163422/19	1		11:49	X																			
CCB 240-163422/20	1		11:50	X																			
ZZZZZZ			11:50																				
ZZZZZZ			11:51																				
ZZZZZZ			11:52																				
ZZZZZZ			11:53																				
240-46034-D-1 MS	1	T	11:54	X																			
ZZZZZZ			11:54																				
240-45978-1	1	T	11:55	X																			
CCV 240-163422/28	1		11:56	X																			
CCB 240-163422/29	1		11:57	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: BARNEY Method: SM4500 P E-1999

Start Date: 01/06/2015 13:00 End Date: 01/06/2015 13:37

Lab Sample ID	D / F	Type	Time	Analytes																			
				P																			
IC 240-163261/1-A			13:00	X																			
IC 240-163261/2-A			13:00	X																			
IC 240-163261/3-A			13:00	X																			
IC 240-163261/4-A			13:00	X																			
IC 240-163261/5-A			13:00	X																			
IC 240-163261/6-A			13:00	X																			
IC 240-163261/7-A			13:00	X																			
CCV 240-163261/8-A			13:00																				
CCB 240-163261/9-A			13:00																				
CCV 240-163261/8-A	1		13:14	X																			
CCB 240-163261/9-A	1		13:14	X																			
MB 240-163261/10-A	1	T	13:14	X																			
LCS 240-163261/11-A	1	T	13:14	X																			
ZZZZZZ			13:14																				
190-6152-B-1-F MS	1	T	13:14	X																			
190-6152-B-1-G MSD	1	T	13:14	X																			
ZZZZZZ			13:14																				
240-45978-1	1	T	13:14	X																			
ZZZZZZ			13:14																				
CCV 240-163261/8-A	1		13:16	X																			
CCB 240-163261/9-A	1		13:16	X																			
ZZZZZZ			13:16																				
ZZZZZZ			13:16																				
CCV 240-163261/8-A			13:18																				
CCB 240-163261/9-A			13:18																				
CCV 240-163261/8-A			13:26																				
CCB 240-163261/9-A			13:26																				
ZZZZZZ			13:27																				
CCV 240-163261/8-A			13:28																				
CCB 240-163261/9-A			13:28																				
ZZZZZZ			13:36																				
ZZZZZZ			13:36																				
CCV 240-163261/8-A			13:37																				
CCB 240-163261/9-A			13:37																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: NOEQUIP Method: 1664A

Start Date: 01/08/2015 08:28 End Date: 01/08/2015 16:28

Lab Sample ID	D / F	Type	Time	Analytes																				
				HEM	SGTHEM																			
MB 240-163551/1-A	1	T	08:28	X																				
LCS 240-163551/2-A	1	T	08:28	X																				
ZZZZZZ			08:28																					
240-45927-I-1-A MS	1	T	08:28	X																				
240-45978-1	1	T	08:28	X	X																			
ZZZZZZ			08:28																					
ZZZZZZ			08:28																					
ZZZZZZ			08:28																					
ZZZZZZ			08:28																					
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ZZZZZZ			08:28																					
ZZZZZZ			16:28																					
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ZZZZZZ			16:28																					

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: NOEQUIP Method: 1664A

Start Date: 01/08/2015 08:28 End Date: 01/08/2015 16:28

Lab Sample ID	D / F	Type	Time	Analytes																			
				HEM	SGTHEM																		
ZZZZZZ			16:28																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: Bugsy Method: 5210B-2001

Start Date: 12/31/2014 13:28 End Date: 12/31/2014 16:41

Lab Sample ID	D / F	Type	Time	Analytes																			
				BOD																			
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
ZZZZZZ			13:28																				
USB 240-163028/1	1	T	15:17	X																			
SCB 240-163028/2	1	T	15:18	X																			
LCS 240-163028/3	1	T	15:27	X																			
ZZZZZZ			15:30																				
ZZZZZZ			15:42																				
240-45978-1	1	T	16:18	X																			
ZZZZZZ			16:25																				
ZZZZZZ			16:33																				
ZZZZZZ			16:37																				
ZZZZZZ			16:41																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: NOEQUIP Method: SM 2540D

Start Date: 01/05/2015 09:02 End Date: 01/05/2015 09:02

Lab Sample ID	D / F	Type	Time	Analytes																				
				TSS																				
MB 240-163172/1	1	T	09:02	X																				
LCS 240-163172/2	1	T	09:02	X																				
ZZZZZZ			09:02																					
240-46004-A-1 DU	1	T	09:02	X																				
240-45978-1	1	T	09:02	X																				
ZZZZZZ			09:02																					
ZZZZZZ			09:02																					
ZZZZZZ			09:02																					
ZZZZZZ			09:02																					
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ZZZZZZ			09:02																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: NOEQUIP Method: SM4500_NH3_C

Start Date: 01/07/2015 14:45 End Date: 01/07/2015 14:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				TKN																			
MB 240-163330/1-A	1	T	14:45	X																			
LCS 240-163330/2-A	1	T	14:46	X																			
ZZZZZZ			14:48																				
240-45978-1	1	T	14:50	X																			
240-45978-1 MS	1	T	14:52	X																			
240-45978-1 MSD	1	T	14:53	X																			
ZZZZZZ			14:55																				
ZZZZZZ			14:57																				
ZZZZZZ			14:59																				

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 12/31/2014 13:25 End Date: 12/31/2014 15:59

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-163027/1	1		13:25	X																			
LCS 240-163027/2	1	T	13:26	X																			
240-45960-B-1 DU	1	T	13:28	X																			
CCV 240-163027/6	1		13:37	X																			
240-45978-1	1	T	15:15	X																			
CCV 240-163027/11	1		15:16	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163068 Batch Start Date: 01/02/15 09:18 Batch Analyst: Matheny, Sarah

Batch Method: Distill/CN Batch End Date: 01/02/15 12:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorineCheck	SulfideCheck	DistillpHCheck	DigestBlockID
MB 240-163068/1		Distill/CN, SM 4500 CN E		50 mL	25 mL	N	N	>12	A
LCS 240-163068/2		Distill/CN, SM 4500 CN E		50 mL	25 mL	N	N	>12	A
240-45955-B-4 MS		Distill/CN, SM 4500 CN E	T	50 mL	25 mL	N	N	>12	A
240-45955-B-4 MSD		Distill/CN, SM 4500 CN E	T	50 mL	25 mL	N	N	>12	A
240-45978-D-1	DSP-2-123014 (GRAB)	Distill/CN, SM 4500 CN E	T	50 mL	25 mL	N	N	>12	B

Lab Sample ID	Client Sample ID	Method Chain	Basis	DigestBlockPos	WCCN1PPMMSD2 00205	WCERAPHEN0L 00018			
MB 240-163068/1		Distill/CN, SM 4500 CN E		1					
LCS 240-163068/2		Distill/CN, SM 4500 CN E		2		5 mL			
240-45955-B-4 MS		Distill/CN, SM 4500 CN E	T	4	2 mL				
240-45955-B-4 MSD		Distill/CN, SM 4500 CN E	T	5	2 mL				
240-45978-D-1	DSP-2-123014 (GRAB)	Distill/CN, SM 4500 CN E	T	1					

Batch Notes	
Batch Comment	CN trap 1647430, beaker lot 1785766
Bismuth Nitrate Lot #	1622335
Distillation Temperature	120 Degrees C
Magnesium Chloride Lot Number	1792538
Sodium Hydroxide Reagent ID Number	1805823
Pipette ID	1831554, 377859
Sulfamic Acid Reagent ID Number	1781106
Sulfuric Acid Reagent ID Number	1828424

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163113 Batch Start Date: 01/02/15 12:25 Batch Analyst: Matheny, Sarah

Batch Method: SM 4500 CN E Batch End Date: 01/02/15 13:33

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCCN.01MRL1 00171	WCCN.1CCV1 00186	WCCN.1ICV2 00192	
ICV 240-163113/4		SM 4500 CN E		2 mL	2 mL			2 mL	
ICB 240-163113/5		SM 4500 CN E		2 mL	2 mL				
MRL 240-163113/6		SM 4500 CN E		2 mL	2 mL	2 mL			
CCV 240-163113/7		SM 4500 CN E		2 mL	2 mL		2 mL		
CCB 240-163113/8		SM 4500 CN E		2 mL	2 mL				
MB 240-163068/1-A		SM 4500 CN E		2 mL	2 mL				
LCS 240-163068/2-A		SM 4500 CN E		2 mL	2 mL				
240-45955-B-4-B MS		SM 4500 CN E	T	2 mL	2 mL				
240-45955-B-4-C MSD		SM 4500 CN E	T	2 mL	2 mL				
240-45978-D-1-A	DSP-2-123014 (GRAB)	SM 4500 CN E	T	2 mL	2 mL				
CCV 240-163113/19		SM 4500 CN E		2 mL	2 mL		2 mL		
CCB 240-163113/20		SM 4500 CN E		2 mL	2 mL				

Batch Notes	
Buffer Reagent ID Number	1828100
Chloramine-T Reagent ID Number	609535
NaOH Lot #	1805823
Pipette ID	1831554, 377859
Pyridine-Barbituric Acid Reagent ID	1173398-1173403

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163422 Batch Start Date: 01/07/15 11:35 Batch Analyst: Harshman, Tom

Batch Method: 5220D-1997 Batch End Date: 01/07/15 11:58

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ChlorideScrn	COD LCS 00005	WCCOD1000 00011	
IC 240-163422/1		5220D-1997		2 mL	2 mL			0.3 mL	
IC 240-163422/2		5220D-1997		2 mL	2 mL			0.2 mL	
IC 240-163422/3		5220D-1997		2 mL	2 mL			0.1 mL	
IC 240-163422/4		5220D-1997		2 mL	2 mL			0.05 mL	
IC 240-163422/5		5220D-1997		2 mL	2 mL			0.01 mL	
IC 240-163422/6		5220D-1997		2 mL	2 mL				
ICV 240-163422/7		5220D-1997		2 mL	2 mL		1 mL		
ICB 240-163422/8		5220D-1997		2 mL	2 mL				
MB 240-163422/9		5220D-1997		2 mL	2 mL				
LCS 240-163422/10		5220D-1997		2 mL	2 mL		1 mL		
CCV 240-163422/19		5220D-1997		2 mL	2 mL			0.1 mL	
CCB 240-163422/20		5220D-1997		2 mL	2 mL				
240-46034-D-1 MS		5220D-1997	T	1.9 mL	2 mL			0.1 mL	
240-45978-H-1	DSP-2-123014 (GRAB)	5220D-1997	T	2 mL	2 mL	x			
CCV 240-163422/28		5220D-1997		2 mL	2 mL			0.1 mL	
CCB 240-163422/29		5220D-1997		2 mL	2 mL				

Batch Notes	
Batch Comment	pipettes 927751/377823/28
Block Digestion End time	11:05
Block Digestion Start time	9:05
Block Digestor Name	WC 1/3
Oven, Bath or Block Temperature 1	149/149
Vial Lot Number	1822482

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163422 Batch Start Date: 01/07/15 11:35 Batch Analyst: Harshman, Tom

Batch Method: 5220D-1997 Batch End Date: 01/07/15 11:58

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163261 Batch Start Date: 01/06/15 06:00 Batch Analyst: Harshman, Tom

Batch Method: 365.2/365.3/365 Batch End Date: 01/06/15 06:28

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCPHOS50PPM 00055	WCWIBBYNUTRIE 00021		
CCV 240-163261/8		365.2/365.3/ 365, SM4500 P E-1999		50 mL	50 mL	0.5 mL			
CCB 240-163261/9		365.2/365.3/ 365, SM4500 P E-1999		50 mL	50 mL				
MB 240-163261/10		365.2/365.3/ 365, SM4500 P E-1999		50 mL	50 mL				
LCS 240-163261/11		365.2/365.3/ 365, SM4500 P E-1999		50 mL	50 mL		5 mL		
190-6152-B-1 MS		365.2/365.3/ 365, SM4500 P E-1999	T	50 mL	50 mL	0.5 mL			
190-6152-B-1 MSD		365.2/365.3/ 365, SM4500 P E-1999	T	50 mL	50 mL	0.5 mL			
240-45978-G-1	DSP-2-123014 (GRAB)	365.2/365.3/ 365, SM4500 P E-1999	T	50 mL	50 mL				

Batch Notes	
Block Digestor Name	Mike
First End time	11:00
Sodium Hydroxide Reagent ID Number	1793378
Ammonium Persulfate Lot #	1610887
Oven, Bath or Block Temperature 1	142.6 Centigrade
Phenolphthalein Lot #	1795154
Pipette ID	377823/28
First Start time	6:30
Sulfuric Acid Reagent ID Number	1793379
ID number of the thermometer	Hobbes
Digestion Tube/Cup Lot #	1709040
Uncorrected Temperature	160 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163261 Batch Start Date: 01/06/15 06:00 Batch Analyst: Harshman, Tom

Batch Method: 365.2/365.3/365 Batch End Date: 01/06/15 06:28

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163351 Batch Start Date: 01/06/15 13:00 Batch Analyst: Harshman, Tom

Batch Method: SM4500 P E-1999 Batch End Date: 01/06/15 13:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	CalcMsg			
CCV 240-163261/8-A		SM4500 P E-1999		4 mL	4 mL	OK			
CCB 240-163261/9-A		SM4500 P E-1999		4 mL	4 mL	OK			
MB 240-163261/10-A		SM4500 P E-1999		4 mL	4 mL	OK			
LCS 240-163261/11-A		SM4500 P E-1999		4 mL	4 mL	OK			
190-6152-B-1-F MS		SM4500 P E-1999	T	4 mL	4 mL	OK			
190-6152-B-1-G MSD		SM4500 P E-1999	T	4 mL	4 mL	OK			
240-45978-G-1-A	DSP-2-123014 (GRAB)	SM4500 P E-1999	T	4 mL	4 mL	OK			
CCV 240-163261/8-A		SM4500 P E-1999		4 mL	4 mL	OK			
CCB 240-163261/9-A		SM4500 P E-1999		4 mL	4 mL	OK			

Batch Notes	
Ammonium Molybdate Reagent ID Number	1724485
Ascorbic Acid Reagent ID Number	1833399
Batch Comment	combined 1833400 11:00 - 15:00
Potassium Antimonyl Tartrate Reagent ID	1829308
Pipette ID	380192
Perform Calculation (0=No, 1=Yes)	1
Sulfuric Acid Reagent ID Number	1724492

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163551 Batch Start Date: 01/08/15 08:27 Batch Analyst: Eikelberry, Nicholas

Batch Method: 1664A Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	Initial pH	Final pH	GrossWeight	TareWeight	InitialAmount	FinalAmount
MB 240-163551/1		1664A, 1664A		5 SU	0 SU	1000 g	0 g	1000 mL	1000 mL
LCS 240-163551/2		1664A, 1664A		5 SU	0 SU	1000 g	0 g	1000 mL	1000 mL
240-45927-I-1 MS		1664A, 1664A	T	0 SU	0 SU	1359.46 g	388.64 g	971 mL	1000 mL
240-45978-J-1	DSP-2-123014 (GRAB)	1664A, 1664A	T	0 SU	0 SU	1556.75 g	497.69 g	1059 mL	1000 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	wchemlcs 00085					
MB 240-163551/1		1664A, 1664A							
LCS 240-163551/2		1664A, 1664A		10 mL					
240-45927-I-1 MS		1664A, 1664A	T	10 mL					
240-45978-J-1	DSP-2-123014 (GRAB)	1664A, 1664A	T						

Batch Notes	
Acid used for pH adjustment	1:1 HCL
Balance ID	B041
Hexane Lot#	+H4799262032G
Nominal Amount Used	1000 mL
Sufficient volume for MS/MSD?	Y

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163562 Batch Start Date: 01/08/15 09:11 Batch Analyst: Eikelberry, Nicholas

Batch Method: 1664A Batch End Date: 01/08/15 18:24

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	ReceiverTube	HEMWgt1	HEMWgt2	Residue	Residue2
MB 240-163551/1-A		1664A		1000 mL	6.4602 g	6.4605 g	6.4605 g	0.0003 g	0.0003 g
LCS 240-163551/2-A		1664A		1000 mL	6.4637 g	6.4983 g	6.4984 g	0.0346 g	0.0347 g
240-45927-I-1-A MS		1664A	T	1000 mL	6.4322 g	6.4651 g	6.4651 g	0.0329 g	0.0329 g
240-45978-J-1-A	DSP-2-123014 (GRAB)	1664A	T	1000 mL	6.4341 g	6.4338 g	6.4338 g	-0.0003 g	-0.0003 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	Weight2OK	CalcMsg				
MB 240-163551/1-A		1664A		Pass 0.0005g	HEM OK. SGT-HEM not calculated.				
LCS 240-163551/2-A		1664A		Pass 0.0005g	HEM OK. SGT-HEM not calculated.				
240-45927-I-1-A MS		1664A	T	Pass 0.0005g	HEM OK. SGT-HEM not calculated.				
240-45978-J-1-A	DSP-2-123014 (GRAB)	1664A	T	Pass 0.0005g	HEM OK. SGT-HEM not calculated.				

Batch Notes	
Acid used for pH adjustment	1:1 HCL
Balance ID	B041
Cal check after 2nd Weighing - 1g	1.0000 g
Cal check after 2nd Weighing - 2 mg	0.0019 g
Cal check before 1st Weighing - 1g	1.0000 g
Cal check before 1st Weighing - 2 mg	0.0020 g
Perform Calculation (0=No, 1=Yes)	1

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163028 Batch Start Date: 12/31/14 15:11 Batch Analyst: Eikelberry, Nicholas

Batch Method: 5210B-2001 Batch End Date: 01/05/15 08:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	WCBODLCS 00035			
USB 240-163028/1		5210B-2001		300 mL	300 mL				
SCB 240-163028/2		5210B-2001		300 mL	300 mL				
LCS 240-163028/3		5210B-2001		300 mL	300 mL	6 mL			
240-45978-F-1	DSP-2-123014 (GRAB)	5210B-2001	T	300 mL	300 mL				

Batch Notes	
Incubator ID	34
Nitrification Inhibitor ID	1160487
Nutrient Buffer Pillow Lot #	1684115
Pipette ID	1337853/4/5
Probe ID	105
Residual Chlorine Pillow Lot #	1416467
Seed Lot	1637398

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163172 Batch Start Date: 01/05/15 09:02 Batch Analyst: Nolle, Laura C

Batch Method: SM 2540D Batch End Date: 01/05/15 15:41

Lab Sample ID	Client Sample ID	Method Chain	Basis	CrucibleID	TareWeight	InitialAmount	Weight1	Weight2	Weight3
MB 240-163172/1		SM 2540D		V56925 0.1141	0.1141 g	100 mL	0.1139 g	0.1141 g	0 g
LCS 240-163172/2		SM 2540D		V56924 0.1117	0.1117 g	100 mL	0.1134 g	0.1134 g	0 g
240-46004-A-1 DU		SM 2540D	T	V56922 0.1127	0.1127 g	100 mL	0.1147 g	0.1149 g	0 g
240-45978-E-1	DSP-2-123014 (GRAB)	SM 2540D	T	V56921 0.1108	0.1108 g	100 mL	0.1107 g	0.1109 g	0 g

Lab Sample ID	Client Sample ID	Method Chain	Basis	WeightOne%Diff	Residue	Residue2	FinalAmount	WCWIBBYSOLIDS 00013	
MB 240-163172/1		SM 2540D		PASS <0.5mg g	-0.0002 g	0 g	100 mL		
LCS 240-163172/2		SM 2540D		PASS <0.5mg g	0.0017 g	0.0017 g	100 mL	100 mL	
240-46004-A-1 DU		SM 2540D	T	PASS <0.5mg g	0.002 g	0.0022 g	100 mL		
240-45978-E-1	DSP-2-123014 (GRAB)	SM 2540D	T	PASS <0.5mg g	-0.0001 g	0.0001 g	100 mL		

Batch Notes	
Balance ID	B044
Constant Weight (WT2) Date/Time in Oven	01/05/14 1323
Constant Weight (WT2) Date/Time Out	01/05/15 1428
Constant Weight (WT2) Temp In	105 Celsius
Constant Weight (WT2) Temp Out	104 Celsius
Corrected Temperature in Oven	104 Celsius
Date/Time Samples placed in Oven	01/05/15 1031
Date/Time Samples removed from Oven	01/05/15 1148
Filter Paper Lot Number	1829938
Nominal Amount Used	100 mL
Oven ID	006
Perform Calculation (0=No, 1=Yes)	1
ID number of the thermometer	24250
Uncorrected Out Temperature	104 Celsius

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163172 Batch Start Date: 01/05/15 09:02 Batch Analyst: Nolle, Laura C

Batch Method: SM 2540D Batch End Date: 01/05/15 15:41

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163330 Batch Start Date: 01/06/15 12:00 Batch Analyst: Kuhle, Julie

Batch Method: SM4500Norg_C Batch End Date: 01/06/15 16:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	DigestBlockPos	P194-525 00011	WCNH31000 00031	
MB 240-163330/1		SM4500Norg_C, SM4500_NH3_C		25 mL	25 mL	A3			
LCS 240-163330/2		SM4500Norg_C, SM4500_NH3_C		25 mL	25 mL	A4	25 mL		
240-45978-H-1	DSP-2-123014 (GRAB)	SM4500Norg_C, SM4500_NH3_C	T	25 mL	25 mL	A6			
240-45978-H-1 MS	DSP-2-123014 (GRAB)	SM4500Norg_C, SM4500_NH3_C	T	25 mL	25 mL	A7		0.5 mL	
240-45978-H-1 MSD	DSP-2-123014 (GRAB)	SM4500Norg_C, SM4500_NH3_C	T	25 mL	25 mL	A8		0.5 mL	

Batch Notes	
Batch Comment	BEAKERS 1817383
Block Digestor Name	CAROL
Digestion Solution Used	1709261
Oven, Bath or Block Temperature 1	182.3
Pipette ID	1337850 1337853

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163488 Batch Start Date: 01/07/15 14:45 Batch Analyst: Kuhle, Julie

Batch Method: SM4500_NH3_C Batch End Date: 01/07/15 15:01

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	TitrantVolume1			
MB 240-163330/1-A		SM4500_NH3_C		25 mL	25 mL	0.10 mL			
LCS 240-163330/2-A		SM4500_NH3_C		25 mL	25 mL	0.60 mL			
240-45978-H-1-A	DSP-2-123014 (GRAB)	SM4500_NH3_C	T	25 mL	25 mL	0.05 mL			
240-45978-H-1-B MS	DSP-2-123014 (GRAB)	SM4500_NH3_C	T	25 mL	25 mL	1.80 mL			
240-45978-H-1-C MSD	DSP-2-123014 (GRAB)	SM4500_NH3_C	T	25 mL	25 mL	1.70 mL			

Batch Notes	
Batch Comment	pipets 377859 377856
Boric Acid Lot #	1781534
Color Reagent ID Number	1776869
Sulfuric Acid Lot Number	1830115
Sodium Thiosulfate Lot Number	1733671
Nominal Amount Used	25 mL
Normality	0.0198 N

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163027 Batch Start Date: 12/31/14 13:25 Batch Analyst: Nolle, Laura C

Batch Method: 4500 H+ B-2000 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-163027/1		4500 H+ B-2000		10 mL	7.05 SU	20.2 Celsius			pH = Read 1
LCS 240-163027/2		4500 H+ B-2000		10 mL	6.26 SU	20.4 Celsius			pH = Read 1
240-45960-B-1 DU		4500 H+ B-2000	T	10 mL	7.61 SU	15.6 Celsius	7.62 SU	15.6 Celsius	Read 2 Pass
CCV 240-163027/6		4500 H+ B-2000		10 mL	7.02 SU	19.0 Celsius			pH = Read 1
240-45978-E-1	DSP-2-123014 (GRAB)	4500 H+ B-2000	T	10 mL	7.32 SU	13.3 Celsius	7.32 SU	13.3 Celsius	Read 2 Pass
CCV 240-163027/11		4500 H+ B-2000		10 mL	7.04 SU	19.4 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00042	WCPHLCS 00010				
CCV 240-163027/1		4500 H+ B-2000		10 mL					
LCS 240-163027/2		4500 H+ B-2000			10 mL				
240-45960-B-1 DU		4500 H+ B-2000	T						
CCV 240-163027/6		4500 H+ B-2000		10 mL					
240-45978-E-1	DSP-2-123014 (GRAB)	4500 H+ B-2000	T						
CCV 240-163027/11		4500 H+ B-2000		10 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-45978-1

SDG No.:

Batch Number: 163027 Batch Start Date: 12/31/14 13:25 Batch Analyst: Nolle, Laura C

Batch Method: 4500 H+ B-2000 Batch End Date:

Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1497429
pH Buffer 2 ID	4-1830814
pH Buffer 3 ID	7-1126157
pH Buffer 4 ID	10-1777201
pH Buffer 5 ID	12-1595632
Calibration Date and Time	12/31/14 1328
Electronic Slope	101.1
Instrument ID	Randolph
Probe ID	WCP108
Sufficient volume for sample dup	Y

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS


240-45978 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

3.4

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Chris Pike	Site Contact: Stuart Cameron	Date: 12/30/2014	COC No:
Tetra Tech	Tel/Fax: 412-302-1624 (cell)	Lab Contact: John McFadden	Carrier: Fedex	1 of 1 COCs
20251 Century Blvd, Suite 200	**Analysis Turnaround Time**			Job No. 112IC04770
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			
(301) 528-3021 Phone	TAT if different from Below: 5 Day			SDG No.
(301) 528-3000 FAX	☐ 2 weeks			
Project Name: MRC Block E MPE System O&M	☐ 1 week			
Site: Middle River Complex, Block E	☐ 2 days			Sampler: S. Cameron
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs - TCL	Metals (Cd, Cr, Cu, Pb, Hg, Ni, Ag, Zn	VOCs -PP (TTO, Volatile Portion)	SVOCs-PP (with TCDD Screen) (TTO, Non-volatile)	Pesticides-PP (TTO, non-volatile)	PCBs-PP (TTO, non-volatile)	TPH (1664, as SGT-HEM)	pH, BOD, TSS (General Chemistry)	COD, TKN, Total P (General Chemistry)	Cyanides	pH	Sample Specific Notes:
DSP-2-123014	12/30/2014	1040	Grab	Water	8				3				2	1	1	1		
DSP-2-123014	12/30/2014	1040	Composite	Water	8			2		2	2	2						

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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:
Stuart Cameron	Tetra Tech	12/30/14-1330			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company: TAI Canton	Date/Time: 12/31/14 11:00hrs

TestAmerica Canton Sample Receipt Form/Narrative Login # : 459718
Canton Facility

Client Tetra Tech Site Name _____ Cooler unpacked by:

Cooler Received on 12/31/14 Opened on 12/31/14

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF +4.0 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	☐ See Multiple Cooler Form
IR GUN# 4	(CF +1.2 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 5	(CF +0.4 °C)	Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8	(CF +0.7 °C)	Observed Cooler Temp. 3.6 °C	Corrected Cooler Temp. 4.3 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Did all bottles arrive in good condition (Unbroken)? (Yes) No
7. Could all bottle labels be reconciled with the COC? (Yes) No
8. Were correct bottle(s) used for the test(s) indicated? (Yes) No
9. Sufficient quantity received to perform indicated analyses? (Yes) No
10. Were sample(s) at the correct pH upon receipt? (Yes) No NA pH Strip Lot# HC425511
11. Were VOAs on the COC? (Yes) No
12. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
13. Was a trip blank present in the cooler(s)? Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ 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 the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

Login Container Summary Report

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container pH	Preservative Added (mls)	Lot #
DSP-2-123014 GRAB	240-45978-D-1	Plastic 250ml - with Sodium Hydro›	>12	_____	_____
DSP-2-123014 GRAB	240-45978-G-1	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
DSP-2-123014 GRAB	240-45978-H-1	Plastic 500ml - with Sulfuric Acid	<2	_____	_____
DSP-2-123014 GRAB	240-45978-I-1	Amber Glass 1 liter - Sulfuric Acid	<2	_____	_____
DSP-2-123014 GRAB	240-45978-J-1	Amber Glass 1 liter - Sulfuric Acid	<2	_____	_____
DSP-2-123014 COMP	240-45978-A-2	Plastic 500ml - with Nitric Acid	<2	_____	_____
DSP-2-123014 COMP	240-45978-B-2	Plastic 500ml - with Nitric Acid	<2	_____	_____

APPENDIX B—INDUSTRIAL-USER MONITORING REPORTS (SEWER DISCHARGE)

APPENDIX B

INDUSTRIAL USER MONITORING REPORTS (SEWER DISCHARGE)

INDUSTRIAL USER MONITORING REPORT

Complete and return this form together with the original laboratory results to:

Baltimore County
Department of Public Works
Bureau of Utilities
Engineering & Regulation Division
4419 Bucks School House Road
Baltimore, Maryland 21237-3310

Company Name: Lockheed Martin Corporation

Facility Address: 2323 Eastern Boulevard, Baltimore, Maryland 21220

Person to contact concerning information contained herein:

Name: Tom Blackman

Title: Project Lead, Environmental Remediation
Telephone No.: (301) 548-2209
E-mail Address: tom.d.blackman@lmco.com

Facility No.: 119033

NA.I.C.S.: 562910

Specify either the principal product or the principal raw material and the quantity per day produced or consumed in units of measurement normally used by this industry.

PRODUCT	AMOUNT	UNITS OF MEASUREMENT
NA	NA	

Wastewater Quantity

Indicate the quantity of wastewater in gallons per working day discharged to the public sewer and whether this discharge is intermittent or continuous.

Flow in gallons per working day: 3,328 gallons per day average between 9/29/2014 and 10/9/2014

Maximum 6,000 gallons per day

Is Flow Continuous [ ] or Intermittent [X]

DOCUMENTATION OF COMPOSITE SAMPLE(S)

Location of sample collection Outfall 001) Wastestream (001)

Start Date and Time of Composite sampling period: 9/29/2014 @ 12 pm

End Date and Time of Composite sampling period: 9/29/2014 @ 2:20 pm

Composite Collection period: 2 hours 20 minutes

Type of preservative added to Composite vessel: Various preservatives were used for the composite samples as shown below and on the Chain of Custody at the end of the laboratory report (they are shown in the gray row under "Sample Identification").

Sample(s) received by Laboratory (date/time): 9/30/2014 @ 7:30am

Wastewater discharged to public sewer during sampling period through the sampling point:

882 gallons

*Indicate origin of seeding material and date obtained: Polyseed; EPA approved for BOD analysis

*Sample must be seeded with fresh sewage organisms preparatory to performing Biochemical Oxygen Demand Analysis.

CHARACTERISTICS OF WASTEWATER SAMPLE(S)

Indicate the characteristics of the wastewater sample(s) by attaching the laboratory analysis and methodology sheets. For those companies who perform their own analysis, a copy of quality control and quality assurance documentation must also be submitted.

DOCUMENTATION OF GRAB SAMPLES

[ ] Cyanide (mg/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	ND[1] (<0.002)	NaOH	SM 45000 CN E
2.					
3.					
4.					

[1]ND – below method detection limit

[ ] pH (Units) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	8.05	None	4500 H+ B-2000
2.					
3.					
4.					

DOCUMENTATION OF GRAB SAMPLE(S) - continued

[ ] Fats, Oils and Greases [FOG] (mg/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	ND (<0.99)	H2SO4	1664A
2.					
3.					
4.					
5.					

[ ] Total Petroleum Hydrocarbons [TPH] (mg/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	ND (<1.1)	H2SO4	1664A
2.					
3.					
4.					
5.					

[ ] Volatile Organics (µg/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	ND	None	40CFR136A 624
2.		:			
3.					
4.					

[ ] Phenols (µg/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	ND	None	40CFR136A 625
2.					
3.					
4.					

DOCUMENTATION OF GRAB SAMPLE(S) - continued

Location of sample collection Outfall (001) Wastestream (001)

	Value	Date	Time	Preservative	Methodology
BOD	ND (<2 mg/L)	09/29/2014	14:20	None	5210B-2001
COD	5.5 mg/L	09/29/2014	14:20	H2SO4	5220D-1997
Phosphorus (T)	0.067 mg/L	09/29/2014	14:20	H2SO4	SM4500 PE-1999
TKN	2.3 mg/L	09/29/2014	14:20	H2SO4	SM4500_NH3_C
TSS	ND (<1.8 mg/L)	09/29/2014	14:20	None	SM 2540D

DOCUMENTATION OF COMPOSITE SAMPLE(S)

Location of sample collection Outfall (001) Wastestream (001)

	Value	Date	Time	Preservative	Methodology
Cadmium (T)	ND (<0.14µg/L)	09/29/2014	14:20	Nitric acid	6010C
Chromium (T)	ND (<0.55 µg/L)	09/29/2014	14:20	Nitric acid	6010C
Copper (T)	ND (<1.9 µg/L)	09/29/2014	14:20	Nitric acid	6010C
Lead (T)	7.9 µg/L	09/29/2014	14:20	Nitric acid	6010C
Mercury (T)	ND (<0.09 µg/L)	09/29/2014	14:20	Nitric acid	7470AC
Nickel (T)	ND (<0.76 µg/L)	09/29/2014	14:20	Nitric acid	6010C
Silver (T)	ND (<0.92 µg/L)	09/29/2014	14:20	Nitric acid	6010C
Zinc (T)	15 µg/L	09/29/2014	14:20	Nitric acid	6010C
Pesticides	All ND except 4,4'-DDT @ 0.026 µg/L and alpha-BHC @ 0.043 µg/L.	09/29/2014	14:20	None	608
PCBs	ND	09/29/2014	14:20	None	608

DOCUMENTATION OF FLOW VALUES

METER READINGS: Outfall (001) Wastestream (001)

	Start Date / Time	Meter Reading	End Date / Time	Meter Reading
1.	09/29/2014 @ 12:00	80 gallons	10/9/2014 @ 12:00	33,364 gallons
2.				
3.				
4.				
5.				

FLOW CALCULATIONS: Outfall (001) Wastestream (001)

Daily Maximum Flow: 6,000 gallons per day

Average Daily Flow: 3,328 gallons per day

Total Flow: 33,284 gallons

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Thomas D. Blackman 10/15/14

(Print Name - Above) (Date -Above)



(Sign Name)

Project Lead, Environmental Remediation, Lockheed Martin Corporation

(Title -Above)

CB2003

INDUSTRIAL USER MONITORING REPORT

Complete and return this form together with the original laboratory results to:

Baltimore County
Department of Public Works
Bureau of Utilities
Engineering & Regulation Division
4419 Bucks School House Road
Baltimore, Maryland 21237-3310

Company Name: Lockheed Martin Corporation

Facility Address: 2323 Eastern Boulevard, Baltimore, Maryland 21220

Person to contact concerning information contained herein:

Name: Tom Blackman

Title: Project Lead, Environmental Remediation
Telephone No.: (301) 548-2209
E-mail Address: tom.d.blackman@lmco.com

Facility No.: 119033

NA.I.C.S.: 562910

Specify either the principal product or the principal raw material and the quantity per day produced or consumed in units of measurement normally used by this industry.

PRODUCT	AMOUNT	UNITS OF MEASUREMENT
NA	NA	

Wastewater Quantity

Indicate the quantity of wastewater in gallons per working day discharged to the public sewer and whether this discharge is intermittent or continuous.

Flow in gallons per working day: 2,822 gallons per day average between 9/29/2014 and 12/30/2014

Maximum 6,000 gallons per day
Is Flow Continuous [ ] or Intermittent [X]

DOCUMENTATION OF COMPOSITE SAMPLE(S)

Location of sample collection Outfall (001) Wastestream (001)
Start Date and Time of Composite sampling period: 12/30/2014 @ 8 am
End Date and Time of Composite sampling period: 12/30/2014 @ 10:40 am
Composite Collection period: 2 hours 40 minutes
Type of preservative added to Composite vessel: Various preservatives were used for the composite samples as shown below and on the Chain of Custody at the end of the laboratory report (they are shown in the gray row under "Sample Identification").
Sample(s) received by Laboratory (date/time): 12/31/2014 @ 11:30am
Wastewater discharged to public sewer during sampling period through the sampling point:
226,247 gallons
*Indicate origin of seeding material and date obtained: Polyseed; EPA approved for BOD analysis
*Sample must be seeded with fresh sewage organisms preparatory to performing Biochemical Oxygen Demand Analysis.

CHARACTERISTICS OF WASTEWATER SAMPLE(S)

Indicate the characteristics of the wastewater sample(s) by attaching the laboratory analysis and methodology sheets. For those companies who perform their own analysis, a copy of quality control and quality assurance documentation must also be submitted.

DOCUMENTATION OF GRAB SAMPLES

[ ] Cyanide (mg/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	ND[1] (<0.002)	NaOH	SM 45000 CN E
2.	12/30/2014	10:40	ND[1] (<0.002)	NaOH	SM 45000 CN E
3.					
4.					

[1]ND – below method detection limit

[ ] pH (Units) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	8.05	None	4500 H+ B-2000

2.	10/30/2014	11:25	7.28	None	4500 H+ B-2000
3.	12/30/2014	10:40	7.32	None	4500 H+ B-2000
4.					

DOCUMENTATION OF GRAB SAMPLE(S) - continued

[ ] Fats, Oils and Greases [FOG] (mg/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	ND (<0.99)	H2SO4	1664A
2.	12/30/2014	10:40	ND (<0.97)	H2SO4	1664A
3.					
4.					
5.					

[ ] Total Petroleum Hydrocarbons [TPH] (mg/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	ND (<1.1)	H2SO4	1664A
2.	12/30/2014	10:40	ND (<1.1)	H2SO4	1664A
3.					
4.					
5.					

[ ] Volatile Organics (ug/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	ND	None	40CFR136A 624
2.	10/30/2014	11:35	ND	None	40CFR136A 624
3.	12/30/2014	10:40	Ethylbenzene – 0.30 ug/L Toluene – 0.46 ug/L	None	40CFR136A 624
4.					

[ ] Phenols (ug/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	9/29/2014	12:00	ND	None	40CFR136A 625
2.	12/30/2014	10:40	ND	None	40CFR136A 625
3.					

4.

DOCUMENTATION OF GRAB SAMPLE(S) - continued

Location of sample collection Outfall (001) Wastestream (001)

	Value	Date	Time	Preservative	Methodology
BOD	ND (<2 mg/L)	12/30/2014	10:40	None	5210B-2001
COD	5.2 mg/L	12/30/2014	10:40	H2SO4	5220D-1997
Phosphorus (T)	ND (<0.05 mg/L)	12/30/2014	10:40	H2SO4	SM4500 PE-1999
TKN	ND (<1.7 mg/L)	12/30/2014	10:40	H2SO4	SM4500_NH3_C
TSS	ND (<1.8 mg/L)	12/30/2014	10:40	None	SM 2540D

DOCUMENTATION OF COMPOSITE SAMPLE(S)

Location of sample collection Outfall (001) Wastestream (001)

	Value	Date	Time	Preservative	Methodology
Cadmium (T)	ND (<0.14 ug/L)	12/30/2014	10:40	Nitric acid	6010C
Chromium (T)	ND (<0.55 ug/L)	12/30/2014	10:40	Nitric acid	6010C
Copper (T)	ND (<1.9 ug/L)	12/30/2014	10:40	Nitric acid	6010C
Lead (T)	ND (<1.9 ug/L)	12/30/2014	10:40	Nitric acid	6010C
Mercury (T)	ND (<0.09 ug/L)	12/30/2014	10:40	Nitric acid	7470AC
Nickel (T)	37 ug/L	12/30/2014	10:40	Nitric acid	6010C
Silver (T)	1.2 ug/L	12/30/2014	10:40	Nitric acid	6010C
Zinc (T)	93 ug/L	12/30/2014	10:40	Nitric acid	6010C
Pesticides	ND	12/30/2014	10:40	None	608
PCBs	ND	12/30/2014	10:40	None	608

DOCUMENTATION OF FLOW VALUES

METER READINGS: Outfall (001) Wastestream (001)

	Start Date / Time	Meter Reading	End Date / Time	Meter Reading
1.	09/29/2014 @ 12:00	80 gallons	10/9/2014 @ 12:00	33,364 gallons
2.	10/9/2014 @ 12:00	33,364 gallons	12/30/2014 @ 10:40	259,611 gallons
3.				
4.				
5.				

FLOW CALCULATIONS: Outfall (001) Wastestream (001)

Daily Maximum Flow: 6,000 gallons per day

Average Daily Flow: 2,822 gallons per day

Total Flow: 259,531 gallons

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

THOMAS D. BLACKMON
(Print Name - Above)

JANUARY 14, 2015
(Date -Above)

(Sign Name)

PROJECT LEAD, ENVIRONMENTAL REMEDIATION
(Title -Above)

CB2003

INDUSTRIAL USER MONITORING REPORT

Complete and return this form together with the original laboratory results to:

Baltimore County
Department of Public Works
Bureau of Utilities
Engineering & Regulation Division
4419 Bucks School House Road
Baltimore, Maryland 21237-3310

Company Name: Lockheed Martin Corporation

Facility Address: 2323 Eastern Boulevard, Baltimore, Maryland 21220

Person to contact concerning information contained herein:

Name: Thomas D. Blackman

Title: Project Lead, Environmental Remediation
Telephone No.: (301) 548-2209
E-mail Address: tom.d.blackman@lmco.com

Facility No.: 119033

NA.I.C.S.: 562910

Specify either the principal product or the principal raw material and the quantity per day produced or consumed in units of measurement normally used by this industry.

PRODUCT	AMOUNT	UNITS OF MEASUREMENT
Groundwater after treatment. Primary contaminate of the groundwater before treatment is Trichloroethene.	374,328	gallons

Wastewater Quantity

Indicate the quantity of wastewater in gallons per working day discharged to the public sewer and whether this discharge is intermittent or continuous.

Flow in gallons per working day: 4,206 gallons per day average between 4/02/2015 and 6/30/2015

Maximum 6,000 gallons per day

Is Flow Continuous [ ] or Intermittent [X]

CHARACTERISTICS OF WASTEWATER SAMPLE(S)

Indicate the characteristics of the wastewater sample(s) by attaching the laboratory analysis and methodology sheets. For those companies who perform their own analysis, a copy of quality control and quality assurance documentation must also be submitted.

DOCUMENTATION OF GRAB SAMPLES

[ ] pH (Units) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	4/02/2015	10:00	6.73	None	4500 H+ B-2000
2.	5/07/2015	9:15	6.53	None	4500 H+ B-2000
3.	6/10/2015	11:00	7.39	None	4500 H+ B-2000
4.					

[ ] Volatile Organics (ug/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	4/02/2015	10:00	ND[1]	None	40CFR136A 624
2.	5/07/2015	9:15	Ethylbenzene – 2.2 Toluene – 0.89	None	40CFR136A 624
3.	6/10/2015	11:00	ND	None	40CFR136A 624
4.					

[1] ND – Non-detect

DOCUMENTATION OF FLOW VALUES

METER READINGS: Outfall (001) Wastestream (001)

	Start Date / Time	Meter Reading	End Date / Time	Meter Reading
1.	04/02/2015 @ 10:00	259,611gallons	05/7/2015 @ 9:15	391,560 gallons
2.	05/7/2015 @ 9:15	391,560 gallons	06/10/2015 @ 11:00	522,494 gallons
3.	06/10/2015 @ 9:15	522,494 gallons	06/30/2015 @ 11:00	633,939 gallons
4.				

FLOW CALCULATIONS: Outfall (001) Wastestream (001)

Daily Maximum Flow: 6,000 gallons per day

Average Daily Flow: 4,206 gallons per day for a period between 4/2/2015 and 6/30/2015

Total Flow: 374,328 gallons between 4/2/2015 and 6/30/2015

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Thomas D. Blackman
(Print Name - Above)

July 14, 2015
(Date -Above)



_____
(Sign Name)

Project Lead, Environmental Remediation
(Title -Above)

CB2003

INDUSTRIAL USER MONITORING REPORT

Complete and return this form together with the original laboratory results to:

Baltimore County
Department of Public Works
Bureau of Utilities
Engineering & Regulation Division
4419 Bucks School House Road
Baltimore, Maryland 21237-3310

Company Name: Lockheed Martin Corporation

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Person to contact concerning information contained herein:

Name: Thomas D. Blackman

Title: Project Lead, Environmental Remediation
Telephone No.: (301) 548-2209
E-mail Address: tom.d.blackman@lmco.com

Facility No.: 119033

NA.I.C.S.: 562910

Specify either the principal product or the principal raw material and the quantity per day produced or consumed in units of measurement normally used by this industry.

PRODUCT	AMOUNT	UNITS OF MEASUREMENT
Groundwater after treatment. Primary contaminate of the groundwater before treatment is Trichloroethene.	390,576	gallons

Wastewater Quantity

Indicate the quantity of wastewater in gallons per working day discharged to the public sewer and whether this discharge is intermittent or continuous.

Flow in gallons per working day: 4,200 gallons per day average between 6/30/2015 and 9/30/2015

Maximum 6,000 gallons per day

Is Flow Continuous [ ] or Intermittent [X]

CHARACTERISTICS OF WASTEWATER SAMPLE(S)

Indicate the characteristics of the wastewater sample(s) by attaching the laboratory analysis and methodology sheets. For those companies who perform their own analysis, a copy of quality control and quality assurance documentation must also be submitted.

DOCUMENTATION OF GRAB SAMPLES

[ ] pH (Units) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	7/15/2015	9:15	6.49	None	4500 H+ B-2000
2.	8/14/2015	11:05	6.86	None	4500 H+ B-2000
3.	9/14/2015	14:30	7.19	None	4500 H+ B-2000
4.					

[ ] Volatile Organics (ug/l) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	7/15/2015	9:15	ND[1]	None	40CFR136A 624
2.	8/14/2015	11:05	ND	None	40CFR136A 624
3.	9/14/2015	14:30	ND	None	40CFR136A 624
4.					

DOCUMENTATION OF FLOW VALUES

METER READINGS: Outfall (001) Wastestream (001)

	Start Date / Time	Meter Reading	End Date / Time	Meter Reading
1.	06/30/2015 @ 11:00	633,939 gallons	07/15/2015 @ 9:15	699,624 gallons
2.	07/15/2015 @ 9:15	699,624 gallons	08/14/2015 @ 11:05	829,572 gallons
3.	08/14/2015 @ 9:15	829,572 gallons	09/14/2015 @ 14:30	946,409 gallons
4.	09/14/2015 @ 14:30	946,409 gallons	09/30/2015 @ 11:00	1,024,515 gallons

[1] Below method detection limit (<0.22 ug/L for TCE).

FLOW CALCULATIONS: Outfall (001) Wastestream (001)

Daily Maximum Flow: 6,000 gallons per day

Average Daily Flow: 4,200 gallons per day for a period between 6/30/2015 and 9/30/2015

Total Flow: 390,576 gallons between 6/30/2015 and 9/30/2015

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Thomas D. Blackman
(Print Name - Above)

October 14, 2015
(Date -Above)



_____
(Sign Name)

Project Lead, Environmental Remediation
(Title -Above)

CB2003

INDUSTRIAL USER MONITORING REPORT

Complete and return this form together with the original laboratory results to:

Baltimore County
Department of Public Works
Bureau of Utilities
Engineering & Regulation Division
4419 Bucks School House Road
Baltimore, Maryland 21237-3310

Company Name: Lockheed Martin Corporation

Facility Address: 2323 Eastern Boulevard, Baltimore, Maryland 21220

Person to contact concerning information contained herein:

Name: Thomas D. Blackman

Title: Project Lead, Environmental Remediation
Telephone No.: (301) 548-2209
E-mail Address: tom.d.blackman@lmco.com

Facility No.: 119033

NA.I.C.S.: 562910

Specify either the principal product or the principal raw material and the quantity per day produced or consumed in units of measurement normally used by this industry.

PRODUCT	AMOUNT	UNITS OF MEASUREMENT
Groundwater after treatment. Primary contaminate of the groundwater before treatment is Trichloroethene.	220,044	gallons

Wastewater Quantity

Indicate the quantity of wastewater in gallons per working day discharged to the public sewer and whether this discharge is intermittent or continuous.

Flow in gallons per working day: 2,895 gallons per day average between 9/30/2015 and 12/15/2015

Maximum 6,000 gallons per day

Is Flow Continuous [ ] or Intermittent [X]

CHARACTERISTICS OF WASTEWATER SAMPLE(S)

Indicate the characteristics of the wastewater sample(s) by attaching the laboratory analysis and methodology sheets. For those companies who perform their own analysis, a copy of quality control and quality assurance documentation must also be submitted.

DOCUMENTATION OF GRAB SAMPLES

[X] pH (Units) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	10/15/2015	13:10	7.08	None	4500 H+ B-2000
2.	11/17/2015	12:40	6.56	None	4500 H+ B-2000
3.	12/03/2015	10:30	6.82	None	4500 H+ B-2000

[X] Volatile Organics (micrograms per liter [ug/l]) Outfall (001) Wastestream (001)

	Date	Time	Value	Preservative	Methodology
1.	10/15/2015	13:10	ND[1]	None	40CFR136A 624
2.	11/17/2015	12:40	ND	None	40CFR136A 624
3.	12/03/2015	10:30	ND	None	40CFR136A 624

DOCUMENTATION OF FLOW VALUES

METER READINGS: Outfall (001) Wastestream (001)

	Start Date / Time	Meter Reading	End Date / Time	Meter Reading
1.	09/30/2015 @ 13:10	1,024,515 gallons	10/15/2015 @ 13:10	1,056,932 gallons
2.	10/15/2015 @ 13:10	1,056,932 gallons	11/17/2015 @ 11:00	1,170,477 gallons
3.	11/17/2015 @ 11:00	1,170,477 gallons	12/03/2015 @ 10:30	1,240,492 gallons
4.	12/03/2015 @ 10:30	1,240,492 gallons	12/15/2015 @ 10:00	1,244,559 gallons

[1] Below method detection limit (<0.22 ug/L for trichloroethene).

FLOW CALCULATIONS: Outfall (001) Wastestream (001)

Daily Maximum Flow: 6,000 gallons per day

Average Daily Flow: 2,895 gallons per day for a period between 9/30/2015 and 12/15/2015

Total Flow: 220,044 gallons between 9/30/2015 and 12/15/2015

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Thomas D. Blackman
(Print Name - Above)

January 12, 2016
(Date -Above)



_____
(Sign Name)

Project Lead, Environmental Remediation
(Title -Above)

CB2003

APPENDIX C—ANALYTICAL SAMPLING RESULTS FOR 2015

APPENDIX C

ANALYTICAL SAMPLING RESULTS FOR 2015

3/26/2015 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-48741-1

Job Description: LM MRC Block E MPE

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
3/31/2015 4:29 PM

John McFadden, Project Manager I
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03/31/2015

cc: Samantha Brenner
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The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: LM MRC Block E MPE

Report Number: 240-48741-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 3/28/2015 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TB-032615 (240-48741-1), WSP-2-032615 (240-48741-2) and WSP-4-032615 (240-48741-3) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 03/30/2015 and 03/31/2015.

Acetone was detected in method blank MB 240-174260/6 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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Acetone was detected in method blank MB 240-174410/6 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

2-Chloroethyl vinyl ether failed the recovery criteria low for LCS 240-174260/4.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample: TB-032615 (240-48741-1), WSP-2-032615 (240-48741-2), and WSP-4-032615 (240-48741-3).

The continuing calibration verification (CCV) for analytical batch 174260 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detects for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required: TB-032615 (240-48741-1), WSP-2-032615 (240-48741-2), and WSP-4-032615 (240-48741-3).

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch 174410: WSP-2-032615 (240-48741-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-48741-1TB	TB-032615	Water	03/26/2015 0000	03/28/2015 0950
240-48741-2	WSP-2-032615	Water	03/26/2015 1110	03/28/2015 0950
240-48741-3	WSP-4-032615	Water	03/26/2015 1115	03/28/2015 0950

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-48741-1TB	**TB-032615**					
Acetone		2.0	J B	10	ug/L	8260C
240-48741-2	**WSP-2-032615**					
2-Butanone (MEK)		25		10	ug/L	8260C
Acetone		57	B	10	ug/L	8260C
240-48741-3	**WSP-4-032615**					
Acetone		3.4	J B	10	ug/L	8260C

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL CAN	SW846 8260C	
Purge and Trap	TAL CAN		SW846 5030C

Lab References:

TAL CAN = TestAmerica Canton

Method References:

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Method	Analyst	Analyst ID
SW846 8260C	Evans, Laura	LEE
SW846 8260C	Quayle, Rick	RJQ

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Client Sample ID: **TB-032615**

Lab Sample ID: 240-48741-1TB Date Sampled: 03/26/2015 0000
Client Matrix: Water Date Received: 03/28/2015 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ5191.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1300			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1300				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.42	U	0.42	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.44	U	0.44	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,3-Dichloropropane	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	0.53	U	0.53	10
2-Chloroethyl vinyl ether	0.59	U *	0.59	10
2-Chlorotoluene	0.40	U	0.40	1.0
2-Hexanone	0.48	U	0.48	10
4-Chlorotoluene	0.29	U	0.29	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	0.99	U	0.99	10
Acetone	2.0	J B	0.94	10
Benzene	0.35	U	0.35	1.0
Bromobenzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	1.0
Carbon disulfide	0.38	U	0.38	1.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	1.0
Chloroform	0.25	U	0.25	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.42	U	0.42	1.0
Bromochloromethane	0.50	U	0.50	1.0
Dichlorodifluoromethane	0.32	U	0.32	1.0
Bromodichloromethane	0.29	U	0.29	1.0
tert-Butyl alcohol	4.9	U	4.9	50

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Client Sample ID: **TB-032615**

Lab Sample ID: 240-48741-1TB Date Sampled: 03/26/2015 0000
Client Matrix: Water Date Received: 03/28/2015 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ5191.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1300			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1300				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.25	U	0.25	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.50	U	0.50	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.20	U	0.20	1.0
Methylene Chloride	0.33	U	0.33	1.0
m-Xylene & p-Xylene	0.24	U	0.24	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.31	U	0.31	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.25	U	0.25	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.30	U	0.30	5.0
Ethyl tert-butyl ether	0.23	U	0.23	5.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.52	U	0.52	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.32	U	0.32	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	106		74 - 120
Dibromofluoromethane (Surr)	102		75 - 121
4-Bromofluorobenzene (Surr)	90		66 - 120
1,2-Dichloroethane-d4 (Surr)	104		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Client Sample ID: **WSP-2-032615**

Lab Sample ID: 240-48741-2 Date Sampled: 03/26/2015 1110
Client Matrix: Water Date Received: 03/28/2015 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ5192.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1323			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1323				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.42	U	0.42	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.44	U	0.44	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,3-Dichloropropane	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	25		0.53	10
2-Chloroethyl vinyl ether	0.59	U *	0.59	10
2-Chlorotoluene	0.40	U	0.40	1.0
2-Hexanone	0.48	U	0.48	10
4-Chlorotoluene	0.29	U	0.29	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	0.99	U	0.99	10
Benzene	0.35	U	0.35	1.0
Bromobenzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	1.0
Carbon disulfide	0.38	U	0.38	1.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	1.0
Chloroform	0.25	U	0.25	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.42	U	0.42	1.0
Bromochloromethane	0.50	U	0.50	1.0
Dichlorodifluoromethane	0.32	U	0.32	1.0
Bromodichloromethane	0.29	U	0.29	1.0
tert-Butyl alcohol	4.9	U	4.9	50
Ethylbenzene	0.25	U	0.25	1.0

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Client Sample ID: **WSP-2-032615**

Lab Sample ID: 240-48741-2 Date Sampled: 03/26/2015 1110
Client Matrix: Water Date Received: 03/28/2015 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ5192.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1323			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1323				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.50	U	0.50	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.20	U	0.20	1.0
Methylene Chloride	0.33	U	0.33	1.0
m-Xylene & p-Xylene	0.24	U	0.24	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.31	U	0.31	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.25	U	0.25	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.30	U	0.30	5.0
Ethyl tert-butyl ether	0.23	U	0.23	5.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.52	U	0.52	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.32	U	0.32	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	104		74 - 120
Dibromofluoromethane (Surr)	100		75 - 121
4-Bromofluorobenzene (Surr)	88		66 - 120
1,2-Dichloroethane-d4 (Surr)	105		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Client Sample ID: **WSP-2-032615**

Lab Sample ID: 240-48741-2 Date Sampled: 03/26/2015 1110
Client Matrix: Water Date Received: 03/28/2015 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-174410	Instrument ID:	A3UX16
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXM6948.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/31/2015 1042			Final Weight/Volume:	5 mL
Prep Date:	03/31/2015 1042				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acetone	57	B	0.94	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	97		74 - 120
Dibromofluoromethane (Surr)	97		75 - 121
4-Bromofluorobenzene (Surr)	96		66 - 120
1,2-Dichloroethane-d4 (Surr)	100		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Client Sample ID: **WSP-4-032615**

Lab Sample ID: 240-48741-3 Date Sampled: 03/26/2015 1115
Client Matrix: Water Date Received: 03/28/2015 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ5193.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1345			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1345				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.45	U F1 F2	0.45	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.42	U	0.42	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.44	U	0.44	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,3-Dichloropropane	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	0.53	U	0.53	10
2-Chloroethyl vinyl ether	0.59	U * F1	0.59	10
2-Chlorotoluene	0.40	U	0.40	1.0
2-Hexanone	0.48	U	0.48	10
4-Chlorotoluene	0.29	U	0.29	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	0.99	U	0.99	10
Acetone	3.4	J B	0.94	10
Benzene	0.35	U	0.35	1.0
Bromobenzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	1.0
Carbon disulfide	0.38	U	0.38	1.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	1.0
Chloroform	0.25	U	0.25	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.42	U	0.42	1.0
Bromochloromethane	0.50	U	0.50	1.0
Dichlorodifluoromethane	0.32	U	0.32	1.0
Bromodichloromethane	0.29	U	0.29	1.0
tert-Butyl alcohol	4.9	U F1	4.9	50

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Client Sample ID: **WSP-4-032615**

Lab Sample ID: 240-48741-3 Date Sampled: 03/26/2015 1115
Client Matrix: Water Date Received: 03/28/2015 0950

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ5193.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1345			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1345				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.25	U	0.25	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.50	U	0.50	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.20	U	0.20	1.0
Methylene Chloride	0.33	U	0.33	1.0
m-Xylene & p-Xylene	0.24	U	0.24	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.31	U	0.31	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.25	U	0.25	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.30	U	0.30	5.0
Ethyl tert-butyl ether	0.23	U	0.23	5.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.52	U	0.52	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.32	U	0.32	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	103		74 - 120
Dibromofluoromethane (Surr)	97		75 - 121
4-Bromofluorobenzene (Surr)	86		66 - 120
1,2-Dichloroethane-d4 (Surr)	102		63 - 129

Client: Tetra Tech, Inc.

Job Number: 240-48741-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-48741-1	TB-032615	102	104	106	90
240-48741-2	WSP-2-032615	100	105	104	88
240-48741-2	WSP-2-032615	97	100	97	96
240-48741-3	WSP-4-032615	97	102	103	86
MB 240-174260/6		101	104	110	89
MB 240-174410/6		99	103	99	97
LCS 240-174260/4		100	106	109	92
LCS 240-174410/4		98	99	101	102
240-48741-3 MS	WSP-4-032615 MS	98	100	110	90
240-48741-3 MSD	WSP-4-032615 MSD	100	101	109	91

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Method Blank - Batch: 240-174260

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-174260/6	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5189.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1215	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1215				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.42	U	0.42	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.44	U	0.44	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,3-Dichloropropane	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	0.53	U	0.53	10
2-Chloroethyl vinyl ether	0.59	U	0.59	10
2-Chlorotoluene	0.40	U	0.40	1.0
2-Hexanone	0.48	U	0.48	10
4-Chlorotoluene	0.29	U	0.29	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	0.99	U	0.99	10
Acetone	1.02	J	0.94	10
Benzene	0.35	U	0.35	1.0
Bromobenzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	1.0
Carbon disulfide	0.38	U	0.38	1.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	1.0
Chloroform	0.25	U	0.25	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.42	U	0.42	1.0
Bromochloromethane	0.50	U	0.50	1.0
Dichlorodifluoromethane	0.32	U	0.32	1.0
Bromodichloromethane	0.29	U	0.29	1.0

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Method Blank - Batch: 240-174260

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-174260/6	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5189.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1215	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1215				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
tert-Butyl alcohol	4.9	U	4.9	50
Ethylbenzene	0.25	U	0.25	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.50	U	0.50	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.20	U	0.20	1.0
Methylene Chloride	0.33	U	0.33	1.0
m-Xylene & p-Xylene	0.24	U	0.24	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.31	U	0.31	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.25	U	0.25	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.30	U	0.30	5.0
Ethyl tert-butyl ether	0.23	U	0.23	5.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.52	U	0.52	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.32	U	0.32	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	110	74 - 120
Dibromofluoromethane (Surr)	101	75 - 121
4-Bromofluorobenzene (Surr)	89	66 - 120
1,2-Dichloroethane-d4 (Surr)	104	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Lab Control Sample - Batch: 240-174260

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-174260/4	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5186.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1052	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1052				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	10.4	104	72 - 120	
1,1,1-Trichloroethane	10.0	9.70	97	74 - 120	
1,1,2,2-Tetrachloroethane	10.0	10.5	105	68 - 120	
1,1,2-Trichlorotrifluoroethane	10.0	8.85	88	74 - 151	
1,1-Dichloroethane	10.0	10.0	100	80 - 120	
1,1-Dichloroethene	10.0	9.71	97	78 - 131	
1,1-Dichloropropene	10.0	10.5	105	80 - 120	
1,2,3-Trichlorobenzene	10.0	11.2	112	54 - 126	
1,2,3-Trichloropropane	10.0	11.2	112	73 - 129	
1,2,4-Trichlorobenzene	10.0	11.8	118	48 - 135	
1,2,4-Trimethylbenzene	10.0	9.74	97	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	12.3	123	42 - 136	
1,2-Dichlorobenzene	10.0	10.9	109	80 - 120	
1,2-Dichloroethane	10.0	10.9	109	71 - 127	
1,2-Dichloropropane	10.0	9.33	93	80 - 120	
1,3-Dichlorobenzene	10.0	10.2	102	80 - 120	
1,3-Dichloropropane	10.0	11.0	110	79 - 120	
1,4-Dichlorobenzene	10.0	10.7	107	80 - 120	
2,2-Dichloropropane	10.0	9.60	96	50 - 129	
2-Butanone (MEK)	20.0	17.6	88	60 - 126	
2-Chloroethyl vinyl ether	12.0	6.17	51	52 - 131	J *
2-Chlorotoluene	10.0	9.87	99	76 - 120	
2-Hexanone	20.0	19.9	99	55 - 133	
4-Chlorotoluene	10.0	10.7	107	77 - 120	
4-Isopropyltoluene	10.0	9.76	98	74 - 120	
4-Methyl-2-pentanone (MIBK)	20.0	17.3	86	63 - 128	
Acetone	20.0	14.4	72	43 - 136	
Benzene	10.0	9.58	96	80 - 120	
Bromobenzene	10.0	10.2	102	76 - 120	
Bromoform	10.0	9.27	93	40 - 131	
Bromomethane	10.0	7.97	80	11 - 185	
Carbon disulfide	10.0	11.2	112	62 - 142	
Carbon tetrachloride	10.0	9.61	96	66 - 128	
Chlorobenzene	10.0	10.4	104	80 - 120	
Chlorodibromomethane	10.0	10.6	106	64 - 120	
Chloroethane	10.0	8.53	85	25 - 153	
Chloroform	10.0	10.2	102	79 - 120	
Chloromethane	10.0	7.64	76	44 - 126	
cis-1,2-Dichloroethene	10.0	9.55	96	80 - 120	
cis-1,3-Dichloropropene	10.0	9.27	93	61 - 120	
Dibromomethane	10.0	9.95	100	80 - 120	
Bromochloromethane	10.0	10.0	100	77 - 120	
Dichlorodifluoromethane	10.0	8.03	80	19 - 129	
Bromodichloromethane	10.0	9.71	97	72 - 121	
tert-Butyl alcohol	100	80.3	80	70 - 130	
Ethylbenzene	10.0	10.3	103	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Lab Control Sample - Batch: 240-174260

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-174260/4	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5186.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1052	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1052				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorobutadiene	10.0	11.0	110	36 - 134	
Isopropylbenzene	10.0	9.58	96	75 - 120	
Methyl tert-butyl ether	10.0	8.89	89	52 - 144	
Methylene Chloride	10.0	10.3	103	66 - 131	
m-Xylene & p-Xylene	10.0	9.98	100	80 - 120	
Naphthalene	10.0	11.1	111	32 - 141	
n-Butylbenzene	10.0	10.7	107	66 - 125	
N-Propylbenzene	10.0	10.4	104	74 - 121	
o-Xylene	10.0	9.60	96	80 - 120	
sec-Butylbenzene	10.0	9.93	99	70 - 120	
Styrene	10.0	8.76	88	79 - 120	
Tetrachloroethene	10.0	10.4	104	79 - 120	
Toluene	10.0	11.2	112	80 - 120	
trans-1,2-Dichloroethene	10.0	9.79	98	80 - 120	
trans-1,3-Dichloropropene	10.0	11.7	117	58 - 120	
Trichloroethene	10.0	9.86	99	76 - 120	
Trichlorofluoromethane	10.0	8.87	89	49 - 157	
Vinyl acetate	10.0	6.61	66	46 - 161	
Vinyl chloride	10.0	8.40	84	53 - 127	
Xylenes, Total	20.0	19.6	98	80 - 120	
tert-Butylbenzene	10.0	9.85	99	71 - 120	
1,2-Dibromoethane	10.0	10.6	106	79 - 120	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	109	74 - 120
Dibromofluoromethane (Surr)	100	75 - 121
4-Bromofluorobenzene (Surr)	92	66 - 120
1,2-Dichloroethane-d4 (Surr)	106	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-174260

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-48741-3	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1650			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1650				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-48741-3	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5202.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1713			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1713				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	100	98	64 - 120	2	30		
1,1,1-Trichloroethane	92	95	68 - 121	3	30		
1,1,2,2-Tetrachloroethane	100	102	63 - 122	2	30		
1,1,2-Trichlorotrifluoroethane	54	80	70 - 152	39	30	F1	F2
1,1-Dichloroethane	99	95	79 - 120	4	30		
1,1-Dichloroethene	87	87	74 - 135	1	30		
1,1-Dichloropropene	97	101	80 - 120	4	30		
1,2,3-Trichlorobenzene	105	110	45 - 129	5	30		
1,2,3-Trichloropropane	107	109	67 - 132	2	30		
1,2,4-Trichlorobenzene	108	112	38 - 138	4	30		
1,2,4-Trimethylbenzene	92	99	67 - 124	7	30		
1,2-Dibromo-3-Chloropropane	106	93	32 - 139	13	30		
1,2-Dichlorobenzene	104	108	75 - 120	4	30		
1,2-Dichloroethane	110	107	68 - 129	3	30		
1,2-Dichloropropane	91	90	78 - 120	1	30		
1,3-Dichlorobenzene	98	99	73 - 120	2	30		
1,3-Dichloropropane	107	103	74 - 120	4	30		
1,4-Dichlorobenzene	101	105	75 - 120	4	30		
2,2-Dichloropropane	87	84	38 - 127	4	30		
2-Butanone (MEK)	79	83	54 - 129	6	30		
2-Chloroethyl vinyl ether	0	0	10 - 150	NC	30	U F1	U F1
2-Chlorotoluene	99	104	69 - 120	5	30		
2-Hexanone	94	92	47 - 139	3	30		
4-Chlorotoluene	99	104	71 - 120	5	30		
4-Isopropyltoluene	91	101	64 - 122	11	30		
4-Methyl-2-pentanone (MIBK)	80	79	56 - 131	0	30		
Acetone	61	65	33 - 145	5	30		
Benzene	94	93	72 - 121	1	30		
Bromobenzene	98	101	71 - 120	2	30		
Bromoform	83	78	32 - 128	6	30		
Bromomethane	79	79	10 - 186	0	30		
Carbon disulfide	101	103	57 - 147	2	30		
Carbon tetrachloride	86	90	59 - 129	5	30		

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-174260

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-48741-3	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1650			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1650				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-48741-3	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5202.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1713			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1713				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chlorobenzene	100	100	80 - 120	0	30		
Chlorodibromomethane	102	97	56 - 120	5	30		
Chloroethane	81	79	21 - 165	2	30		
Chloroform	100	102	76 - 120	2	30		
Chloromethane	76	78	33 - 132	3	30		
cis-1,2-Dichloroethene	94	93	70 - 120	2	30		
cis-1,3-Dichloropropene	88	86	51 - 120	2	30		
Dibromomethane	95	97	77 - 121	2	30		
Bromochloromethane	96	93	73 - 121	3	30		
Dichlorodifluoromethane	59	73	17 - 128	22	30		
Bromodichloromethane	94	96	67 - 120	1	30		
tert-Butyl alcohol	68	69	70 - 130	1	30	F1	F1
Ethylbenzene	99	98	75 - 120	1	30		
Hexachlorobutadiene	86	104	27 - 132	20	30		
Isopropylbenzene	91	94	68 - 120	3	30		
Methyl tert-butyl ether	86	83	46 - 144	4	30		
Methylene Chloride	93	92	63 - 128	1	30		
m-Xylene & p-Xylene	98	98	75 - 120	0	30		
Naphthalene	105	109	15 - 158	4	30		
n-Butylbenzene	99	106	56 - 127	7	30		
N-Propylbenzene	96	104	64 - 124	8	30		
o-Xylene	95	95	76 - 120	0	30		
sec-Butylbenzene	93	102	60 - 120	9	30		
Styrene	88	86	71 - 120	2	30		
Tetrachloroethene	93	101	70 - 120	9	30		
Toluene	110	108	78 - 120	2	30		
trans-1,2-Dichloroethene	95	95	80 - 120	0	30		
trans-1,3-Dichloropropene	108	101	46 - 120	6	30		
Trichloroethene	96	92	66 - 120	4	30		
Trichlorofluoromethane	74	87	46 - 157	17	30		
Vinyl acetate	61	60	43 - 157	1	30		
Vinyl chloride	77	82	49 - 130	6	30		
Xylenes, Total	97	97	76 - 120	0	30		

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-174260

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-48741-3	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1650			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1650				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-48741-3	Analysis Batch:	240-174260	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ5202.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/30/2015 1713			Final Weight/Volume:	5 mL
Prep Date:	03/30/2015 1713				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
tert-Butylbenzene	89	99	61 - 120	10	30		
1,2-Dibromoethane	107	102	74 - 120	5	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	110	109	74 - 120
Dibromofluoromethane (Surr)	98	100	75 - 121
4-Bromofluorobenzene (Surr)	90	91	66 - 120
1,2-Dichloroethane-d4 (Surr)	100	101	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-174260

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-48741-3	Units: ug/L	MSD Lab Sample ID:	240-48741-3	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	03/30/2015 1650		Analysis Date:	03/30/2015 1713	
Prep Date:	03/30/2015 1650		Prep Date:	03/30/2015 1713	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1,2-Tetrachloroethane	0.28	U	10.0	10.0	9.99		9.79	
1,1,1-Trichloroethane	0.44	U	10.0	10.0	9.20		9.51	
1,1,2,2-Tetrachloroethane	0.22	U	10.0	10.0	10.0		10.2	
1,1,2-Trichlorotrifluoroethane	0.45	U	10.0	10.0	5.40	F1	7.97	F2
1,1-Dichloroethane	0.30	U	10.0	10.0	9.86		9.49	
1,1-Dichloroethene	0.45	U	10.0	10.0	8.72		8.65	
1,1-Dichloropropene	0.42	U	10.0	10.0	9.70		10.1	
1,2,3-Trichlorobenzene	0.37	U	10.0	10.0	10.5		11.0	
1,2,3-Trichloropropane	0.44	U	10.0	10.0	10.7		10.9	
1,2,4-Trichlorobenzene	0.32	U	10.0	10.0	10.8		11.2	
1,2,4-Trimethylbenzene	0.41	U	10.0	10.0	9.22		9.93	
1,2-Dibromo-3-Chloropropane	0.82	U	10.0	10.0	10.6		9.30	
1,2-Dichlorobenzene	0.25	U	10.0	10.0	10.4		10.8	
1,2-Dichloroethane	0.23	U	10.0	10.0	11.0		10.7	
1,2-Dichloropropane	0.25	U	10.0	10.0	9.10		9.05	
1,3-Dichlorobenzene	0.19	U	10.0	10.0	9.78		9.94	
1,3-Dichloropropane	0.19	U	10.0	10.0	10.7		10.3	
1,4-Dichlorobenzene	0.27	U	10.0	10.0	10.1		10.5	
2,2-Dichloropropane	0.26	U	10.0	10.0	8.71		8.39	
2-Butanone (MEK)	0.53	U	20.0	20.0	15.8		16.7	
2-Chloroethyl vinyl ether	0.59	U	12.0	12.0	0.59	U F1	0.59	U F1
2-Chlorotoluene	0.40	U	10.0	10.0	9.93		10.4	
2-Hexanone	0.48	U	20.0	20.0	18.9		18.3	
4-Chlorotoluene	0.29	U	10.0	10.0	9.91		10.4	
4-Isopropyltoluene	0.43	U	10.0	10.0	9.09		10.1	
4-Methyl-2-pentanone (MIBK)	0.99	U	20.0	20.0	15.9		15.9	
Acetone	3.4	J	20.0	20.0	15.6		16.5	
Benzene	0.35	U	10.0	10.0	9.38		9.26	
Bromobenzene	0.35	U	10.0	10.0	9.84		10.1	
Bromoform	0.56	U	10.0	10.0	8.30		7.84	
Bromomethane	0.44	U	10.0	10.0	7.90		7.91	
Carbon disulfide	0.38	U	10.0	10.0	10.1		10.3	
Carbon tetrachloride	0.43	U	10.0	10.0	8.61		9.03	
Chlorobenzene	0.25	U	10.0	10.0	9.97		9.99	
Chlorodibromomethane	0.43	U	10.0	10.0	10.2		9.66	
Chloroethane	0.32	U	10.0	10.0	8.08		7.88	
Chloroform	0.25	U	10.0	10.0	9.96		10.2	
Chloromethane	0.44	U	10.0	10.0	7.57		7.79	
cis-1,2-Dichloroethene	0.26	U	10.0	10.0	9.44		9.26	
cis-1,3-Dichloropropene	0.46	U	10.0	10.0	8.79		8.57	
Dibromomethane	0.42	U	10.0	10.0	9.50		9.66	
Bromochloromethane	0.50	U	10.0	10.0	9.55		9.27	
Dichlorodifluoromethane	0.32	U	10.0	10.0	5.87		7.34	

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-174260

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-48741-3	Units: ug/L	MSD Lab Sample ID:	240-48741-3	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	1.0		Dilution:	1.0	
Analysis Date:	03/30/2015 1650		Analysis Date:	03/30/2015 1713	
Prep Date:	03/30/2015 1650		Prep Date:	03/30/2015 1713	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Bromodichloromethane	0.29	U	10.0	10.0	9.41		9.55	
tert-Butyl alcohol	4.9	U	100	100	67.8	F1	68.6	F1
Ethylbenzene	0.25	U	10.0	10.0	9.95		9.84	
Hexachlorobutadiene	0.35	U	10.0	10.0	8.58		10.4	
Isopropylbenzene	0.35	U	10.0	10.0	9.07		9.35	
Methyl tert-butyl ether	0.20	U	10.0	10.0	8.57		8.26	
Methylene Chloride	0.33	U	10.0	10.0	9.31		9.18	
m-Xylene & p-Xylene	0.24	U	10.0	10.0	9.82		9.85	
Naphthalene	0.45	U	10.0	10.0	10.5		10.9	
n-Butylbenzene	0.31	U	10.0	10.0	9.92		10.6	
N-Propylbenzene	0.40	U	10.0	10.0	9.57		10.4	
o-Xylene	0.25	U	10.0	10.0	9.51		9.49	
sec-Butylbenzene	0.48	U	10.0	10.0	9.30		10.2	
Styrene	0.45	U	10.0	10.0	8.78		8.59	
Tetrachloroethene	0.31	U	10.0	10.0	9.28		10.1	
Toluene	0.23	U	10.0	10.0	11.0		10.8	
trans-1,2-Dichloroethene	0.30	U	10.0	10.0	9.50		9.53	
trans-1,3-Dichloropropene	0.56	U	10.0	10.0	10.8		10.1	
Trichloroethene	0.22	U	10.0	10.0	9.56		9.21	
Trichlorofluoromethane	0.49	U	10.0	10.0	7.39		8.73	
Vinyl acetate	0.41	U	10.0	10.0	6.07		6.00	
Vinyl chloride	0.29	U	10.0	10.0	7.67		8.15	
Xylenes, Total	0.52	U	20.0	20.0	19.3		19.3	
tert-Butylbenzene	0.41	U	10.0	10.0	8.92		9.89	
1,2-Dibromoethane	0.32	U	10.0	10.0	10.7		10.2	

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Method Blank - Batch: 240-174410

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-174410/6	Analysis Batch:	240-174410	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM6947.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/31/2015 1003	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/31/2015 1003				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
Acetone	2.96	J	0.94	10
Diisopropyl ether	0.50	U	0.50	10
Tert-amyl methyl ether	0.30	U	0.30	5.0
Ethyl tert-butyl ether	0.23	U	0.23	5.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	99	74 - 120
Dibromofluoromethane (Surr)	99	75 - 121
4-Bromofluorobenzene (Surr)	97	66 - 120
1,2-Dichloroethane-d4 (Surr)	103	63 - 129

Lab Control Sample - Batch: 240-174410

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-174410/4	Analysis Batch:	240-174410	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM6945.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/31/2015 0918	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/31/2015 0918				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	20.0	21.7	108	43 - 136	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	101	74 - 120
Dibromofluoromethane (Surr)	98	75 - 121
4-Bromofluorobenzene (Surr)	102	66 - 120
1,2-Dichloroethane-d4 (Surr)	99	63 - 129

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	F1	MS and/or MSD Recovery exceeds the control limits
	F2	MS/MSD RPD exceeds control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Tetra Tech, Inc. Job Number: 240-48741-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-174260					
LCS 240-174260/4	Lab Control Sample	T	Water	8260C	
MB 240-174260/6	Method Blank	T	Water	8260C	
240-48741-1TB	TB-032615	T	Water	8260C	
240-48741-2	WSP-2-032615	T	Water	8260C	
240-48741-3	WSP-4-032615	T	Water	8260C	
240-48741-3MS	Matrix Spike	T	Water	8260C	
240-48741-3MSD	Matrix Spike Duplicate	T	Water	8260C	
Analysis Batch:240-174410					
LCS 240-174410/4	Lab Control Sample	T	Water	8260C	
MB 240-174410/6	Method Blank	T	Water	8260C	
240-48741-2	WSP-2-032615	T	Water	8260C	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Laboratory Chronicle

Lab ID: 240-48741-1 **Client ID: TB-032615**

Sample Date/Time: 03/26/2015 00:00 Received Date/Time: 03/28/2015 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-48741-B-1		240-174260		03/30/2015 13:00	1	TAL CAN	LEE
A:8260C	240-48741-B-1		240-174260		03/30/2015 13:00	1	TAL CAN	LEE

Lab ID: 240-48741-2 **Client ID: WSP-2-032615**

Sample Date/Time: 03/26/2015 11:10 Received Date/Time: 03/28/2015 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-48741-B-2		240-174260		03/30/2015 13:23	1	TAL CAN	LEE
A:8260C	240-48741-B-2		240-174260		03/30/2015 13:23	1	TAL CAN	LEE
P:5030C	240-48741-C-2		240-174410		03/31/2015 10:42	1	TAL CAN	RJQ
A:8260C	240-48741-C-2		240-174410		03/31/2015 10:42	1	TAL CAN	RJQ

Lab ID: 240-48741-3 **Client ID: WSP-4-032615**

Sample Date/Time: 03/26/2015 11:15 Received Date/Time: 03/28/2015 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-48741-B-3		240-174260		03/30/2015 13:45	1	TAL CAN	LEE
A:8260C	240-48741-B-3		240-174260		03/30/2015 13:45	1	TAL CAN	LEE

Lab ID: 240-48741-3 MS **Client ID: WSP-4-032615**

Sample Date/Time: 03/26/2015 11:15 Received Date/Time: 03/28/2015 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-48741-A-3 MS		240-174260		03/30/2015 16:50	1	TAL CAN	LEE
A:8260C	240-48741-A-3 MS		240-174260		03/30/2015 16:50	1	TAL CAN	LEE

Lab ID: 240-48741-3 MSD **Client ID: WSP-4-032615**

Sample Date/Time: 03/26/2015 11:15 Received Date/Time: 03/28/2015 09:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-48741-C-3 MSD		240-174260		03/30/2015 17:13	1	TAL CAN	LEE
A:8260C	240-48741-C-3 MSD		240-174260		03/30/2015 17:13	1	TAL CAN	LEE

Client: Tetra Tech, Inc. Job Number: 240-48741-1

Laboratory Chronicle

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 240-174260/6		240-174260		03/30/2015 12:15	1	TAL CAN	LEE
A:8260C	MB 240-174260/6		240-174260		03/30/2015 12:15	1	TAL CAN	LEE
P:5030C	MB 240-174410/6		240-174410		03/31/2015 10:03	1	TAL CAN	RJQ
A:8260C	MB 240-174410/6		240-174410		03/31/2015 10:03	1	TAL CAN	RJQ

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 240-174260/4		240-174260		03/30/2015 10:52	1	TAL CAN	LEE
A:8260C	LCS 240-174260/4		240-174260		03/30/2015 10:52	1	TAL CAN	LEE
P:5030C	LCS 240-174410/4		240-174410		03/31/2015 09:18	1	TAL CAN	RJQ
A:8260C	LCS 240-174410/4		240-174410		03/31/2015 09:18	1	TAL CAN	RJQ

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VM50IS_00044	03/18/15	09/18/14	MEOH, Lot 62345	100 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
VM50IS_00045	05/01/15	10/31/14	MEOH, Lot 62345	100 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00186	01/23/15	01/16/15	MEOH, Lot na	2 mL	vm50ss_stk_00063	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00063	06/08/15	12/08/14	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00063	06/08/15	12/08/14	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00084	01/23/15	01/16/15	MEOH, Lot na	3 mL	VMACROLSTD_00021	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00021	01/31/15	12/31/14	MEOH, Lot 0000085233	20 mL	VM568720_00004	0.25 mL	Acrolein	250 ug/mL
..VM568720_00004	02/28/15		restek, Lot A0106504		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00088	02/24/15	02/17/15	MEOH, Lot na	3 mL	VMACROLSTD_00022	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00022	02/28/15	01/31/15	MEOH, Lot 0000085233	20 mL	VM568720_00004	0.25 mL	Acrolein	250 ug/mL
..VM568720_00004	02/28/15		restek, Lot A0106504		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASA9W_00047	02/25/15	02/18/15	MEOH, Lot NA	2 mL	VMFASA9_00004	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMFASA9_00004	06/30/15	02/06/15	MEOH, Lot 0000085233	100 mL	vm568722S_00002	2.5 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723S_00001	2.5 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tert-amyl methyl ether	50 ug/mL
..vm568722S_00002	06/30/15		restek, Lot A0100258		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723S_00001	04/30/16		restek, Lot A0102749		(Purchased Reagent)		Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMFASGW_00078	01/27/15	01/20/15	MEOH, Lot NA	2 mL	VMFASG_00025	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00025	02/12/15	01/12/15	MEOH, Lot +161620000085233JB	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00081	02/19/15	02/12/15	MEOH, Lot NA	2 mL	VMFASG_00026	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00026	03/12/15	02/12/15	MEOH, Lot +161620000085233JB	50 mL	VM567645S_00017	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00088	04/06/15	03/30/15	MEOH, Lot NA	2 mL	VMFASG_00027	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00027	04/13/15	03/13/15	MEOH, Lot 0000085233	50 mL	VM567645S_00017	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15	Restek, Lot A099261			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00081	01/27/15	01/20/15	MEOH, Lot n/a	2 mL	VMRFASP_00016	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	50 ug/mL
.VMRFASP_00016	02/12/15	01/12/15	MEOH, Lot +161620000085233JB	100 mL	VM567641S_00006	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00003	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00012	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00009	1.25 mL	Vinyl acetate	50 ug/mL
..VM567641S_00006	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00003	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643S_00012	07/31/17		Restek, Lot A0104963		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00009	05/31/15		Restek, Lot A0107040		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMFASPW_00085	02/19/15	02/12/15	MEOH, Lot n/a	2 mL	VMRFASP_00018	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	50 ug/mL
.VMRFASP_00018	03/12/15	02/12/15	MEOH, Lot +161620000085233JB	100 mL	VM567641S_00006	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642S_00003	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00012	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00009	1.25 mL	Vinyl acetate	50 ug/mL
..VM567641S_00006	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642S_00003	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acetone	10000 ug/mL
..VM567643S_00012	07/31/17	Restek, Lot A0104963			(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00009	05/31/15	Restek, Lot A0107040			(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMFASPW_00085	02/19/15	02/12/15	MEOH, Lot n/a	2 mL	VMRFASP_00018	2 mL	Xylenes, Total	100 ug/mL
.VMRFASP_00018	03/12/15	02/12/15	MEOH, Lot +161620000085233JB	100 mL	VM567641S_00006	2.5 mL	Xylenes, Total	100 ug/mL
..VM567641S_00006	02/29/16	Restek, Lot A093733			(Purchased Reagent)		Xylenes, Total	4000 ug/mL
VMFASPW_00092	04/06/15	03/30/15	MEOH, Lot n/a	2 mL	VMRFASP_00019	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
							Vinyl acetate	50 ug/mL
.VMRFASP_00019	04/11/15	03/11/15	MEOH, Lot +161620000085233JB	100 mL	VM567641S_00006	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643S_00012	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
					VM567646S_00009	1.25 mL	Vinyl acetate	50 ug/mL
..VM567641S_00006	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..VM567643S_00012	07/31/17	Restek, Lot A0104963			(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646S_00009	05/31/15	Restek, Lot A0107040			(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRA9W_00089	01/15/15	01/08/15	MEOH, Lot NA	1 mL	VMRA9_00011	1 mL	Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00011	02/28/15	10/29/14	MEOH, Lot 0000085233	50 mL	VM567648_00014	1.25 mL	Cyclohexanone	500 ug/mL
					vm567719_00020	2.5 mL	2-Methylnaphthalene	100 ug/mL
					vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
					VM568723_00001	1.25 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..VM567648_00014	02/29/16	Restek, Lot A093361			(Purchased Reagent)		Cyclohexanone	20000 ug/mL
..vm567719_00020	02/28/15	Restek, Lot A093359			(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
..vm568722_00002	06/30/15	restek, Lot A0100262			(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							1-Chlorohexane	2000 ug/mL
							2-Chloro-1,3-butadiene	2000 ug/mL
							2-Nitropropane	4000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							n-Butanol	50000 ug/mL
..VM568723_00001	12/31/15	restek, Lot A099930			(Purchased Reagent)		Acetonitrile	20000 ug/mL
							Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRA9W_00094	02/23/15	02/16/15	MEOH, Lot NA	1 mL	VMRA9_00011	1 mL	Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00011	02/28/15	10/29/14	MEOH, Lot 0000085233	50 mL	VM567648_00014	1.25 mL	Cyclohexanone	500 ug/mL
					vm567719_00020	2.5 mL	2-Methylnaphthalene	100 ug/mL
					vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
					VM568723_00001	1.25 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..VM567648_00014	02/29/16	Restek, Lot A093361			(Purchased Reagent)		Cyclohexanone	20000 ug/mL
..vm567719_00020	02/28/15	Restek, Lot A093359			(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
..vm568722_00002	06/30/15	restek, Lot A0100262			(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							1-Chlorohexane	2000 ug/mL
							2-Chloro-1,3-butadiene	2000 ug/mL
							2-Nitropropane	4000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL
..VM568723_00001	12/31/15		restek, Lot A099930		(Purchased Reagent)		Acetonitrile	20000 ug/mL
							Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRA9W_00099	03/31/15	03/24/15	MEOH, Lot NA	1 mL	VMRA9_00012	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00012	06/30/15	02/28/15	MEOH, Lot 0000085233	50 mL	vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723_00001	1.25 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..vm568722_00002	06/30/15		restek, Lot A0100262		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723_00001	12/31/15		restek, Lot A099930		(Purchased Reagent)		Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRGAS_00087	01/28/15	01/21/15	MEOH, Lot 0000085233	10 mL	vm567645_00031	0.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00031	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRGAS_00090	02/23/15	02/16/15	MEOH, Lot 0000085233	10 mL	vm567645_00031	0.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00031	02/28/15		Restek, Lot A093341		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRGAS_00096	04/06/15	03/30/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18	Restek, Lot A0108198			(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00108	01/22/15	01/15/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00014	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00016	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00014	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00016	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00118	03/30/15	03/23/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642_00014	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00016	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642_00014	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16	restek, Lot A093368			(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00016	05/31/15	Restek, Lot A0107309			(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00119	04/07/15	03/31/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	Acetone	100 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567642_00014	0.5 mL	Acetone	100 ug/mL
..VM567642_00014	02/29/16	Restek, Lot A093365			(Purchased Reagent)		Acetone	10000 ug/mL

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-48741-1
Project/Site: LM MRC Block E MPE

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	Kentucky (WW)	State Program	4	98016
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Oregon	NELAP	10	4062
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

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-032615	240-48741-1	102	104	106	90
WSP-2-032615	240-48741-2	100	105	104	88
WSP-2-032615	240-48741-2	97	100	97	96
WSP-4-032615	240-48741-3	97	102	103	86
	MB 240-174260/6	101	104	110	89
	MB 240-174410/6	99	103	99	97
	LCS 240-174260/4	100	106	109	92
	LCS 240-174410/4	98	99	101	102
WSP-4-032615 MS	240-48741-3 MS	98	100	110	90
WSP-4-032615 MSD	240-48741-3 MSD	100	101	109	91

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5186.D

Lab ID: LCS 240-174260/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	10.4	104	72-120	
1,1,1-Trichloroethane	10.0	9.70	97	74-120	
1,1,2,2-Tetrachloroethane	10.0	10.5	105	68-120	
1,1,2-Trichlorotrifluoroethane	10.0	8.85	88	74-151	
1,1-Dichloroethane	10.0	10.0	100	80-120	
1,1-Dichloroethene	10.0	9.71	97	78-131	
1,1-Dichloropropene	10.0	10.5	105	80-120	
1,2,3-Trichlorobenzene	10.0	11.2	112	54-126	
1,2,3-Trichloropropane	10.0	11.2	112	73-129	
1,2,4-Trichlorobenzene	10.0	11.8	118	48-135	
1,2,4-Trimethylbenzene	10.0	9.74	97	76-120	
1,2-Dibromo-3-Chloropropane	10.0	12.3	123	42-136	
1,2-Dichlorobenzene	10.0	10.9	109	80-120	
1,2-Dichloroethane	10.0	10.9	109	71-127	
1,2-Dichloropropane	10.0	9.33	93	80-120	
1,3-Dichlorobenzene	10.0	10.2	102	80-120	
1,3-Dichloropropane	10.0	11.0	110	79-120	
1,4-Dichlorobenzene	10.0	10.7	107	80-120	
2,2-Dichloropropane	10.0	9.60	96	50-129	
2-Butanone (MEK)	20.0	17.6	88	60-126	
2-Chloroethyl vinyl ether	12.0	6.17 J	51	52-131	*
2-Chlorotoluene	10.0	9.87	99	76-120	
2-Hexanone	20.0	19.9	99	55-133	
4-Chlorotoluene	10.0	10.7	107	77-120	
4-Isopropyltoluene	10.0	9.76	98	74-120	
4-Methyl-2-pentanone (MIBK)	20.0	17.3	86	63-128	
Acetone	20.0	14.4	72	43-136	
Benzene	10.0	9.58	96	80-120	
Bromobenzene	10.0	10.2	102	76-120	
Bromoform	10.0	9.27	93	40-131	
Bromomethane	10.0	7.97	80	11-185	
Carbon disulfide	10.0	11.2	112	62-142	
Carbon tetrachloride	10.0	9.61	96	66-128	
Chlorobenzene	10.0	10.4	104	80-120	
Chlorodibromomethane	10.0	10.6	106	64-120	
Chloroethane	10.0	8.53	85	25-153	
Chloroform	10.0	10.2	102	79-120	
Chloromethane	10.0	7.64	76	44-126	
cis-1,2-Dichloroethene	10.0	9.55	96	80-120	
cis-1,3-Dichloropropene	10.0	9.27	93	61-120	
Dibromomethane	10.0	9.95	100	80-120	
Bromochloromethane	10.0	10.0	100	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5186.D

Lab ID: LCS 240-174260/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	8.03	80	19-129	
Bromodichloromethane	10.0	9.71	97	72-121	
tert-Butyl alcohol	100	80.3	80	70-130	
Ethylbenzene	10.0	10.3	103	80-120	
Hexachlorobutadiene	10.0	11.0	110	36-134	
Isopropylbenzene	10.0	9.58	96	75-120	
Methyl tert-butyl ether	10.0	8.89	89	52-144	
Methylene Chloride	10.0	10.3	103	66-131	
m-Xylene & p-Xylene	10.0	9.98	100	80-120	
Naphthalene	10.0	11.1	111	32-141	
n-Butylbenzene	10.0	10.7	107	66-125	
N-Propylbenzene	10.0	10.4	104	74-121	
o-Xylene	10.0	9.60	96	80-120	
sec-Butylbenzene	10.0	9.93	99	70-120	
Styrene	10.0	8.76	88	79-120	
Tetrachloroethene	10.0	10.4	104	79-120	
Toluene	10.0	11.2	112	80-120	
trans-1,2-Dichloroethene	10.0	9.79	98	80-120	
trans-1,3-Dichloropropene	10.0	11.7	117	58-120	
Trichloroethene	10.0	9.86	99	76-120	
Trichlorofluoromethane	10.0	8.87	89	49-157	
Vinyl acetate	10.0	6.61	66	46-161	
Vinyl chloride	10.0	8.40	84	53-127	
Xylenes, Total	20.0	19.6	98	80-120	
tert-Butylbenzene	10.0	9.85	99	71-120	
1,2-Dibromoethane	10.0	10.6	106	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXM6945.D

Lab ID: LCS 240-174410/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Acetone	20.0	21.7	108	43-136	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5201.D

Lab ID: 240-48741-3 MS Client ID: WSP-4-032615 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	0.28 U	9.99	100	64-120	
1,1,1-Trichloroethane	10.0	0.44 U	9.20	92	68-121	
1,1,2,2-Tetrachloroethane	10.0	0.22 U	10.0	100	63-122	
1,1,2-Trichlorotrifluoroethane	10.0	0.45 U	5.40	54	70-152	F1
1,1-Dichloroethane	10.0	0.30 U	9.86	99	79-120	
1,1-Dichloroethene	10.0	0.45 U	8.72	87	74-135	
1,1-Dichloropropene	10.0	0.42 U	9.70	97	80-120	
1,2,3-Trichlorobenzene	10.0	0.37 U	10.5	105	45-129	
1,2,3-Trichloropropane	10.0	0.44 U	10.7	107	67-132	
1,2,4-Trichlorobenzene	10.0	0.32 U	10.8	108	38-138	
1,2,4-Trimethylbenzene	10.0	0.41 U	9.22	92	67-124	
1,2-Dibromo-3-Chloropropane	10.0	0.82 U	10.6	106	32-139	
1,2-Dichlorobenzene	10.0	0.25 U	10.4	104	75-120	
1,2-Dichloroethane	10.0	0.23 U	11.0	110	68-129	
1,2-Dichloropropane	10.0	0.25 U	9.10	91	78-120	
1,3-Dichlorobenzene	10.0	0.19 U	9.78	98	73-120	
1,3-Dichloropropane	10.0	0.19 U	10.7	107	74-120	
1,4-Dichlorobenzene	10.0	0.27 U	10.1	101	75-120	
2,2-Dichloropropane	10.0	0.26 U	8.71	87	38-127	
2-Butanone (MEK)	20.0	0.53 U	15.8	79	54-129	
2-Chloroethyl vinyl ether	12.0	0.59 U	0.59 U	0	10-150	F1
2-Chlorotoluene	10.0	0.40 U	9.93	99	69-120	
2-Hexanone	20.0	0.48 U	18.9	94	47-139	
4-Chlorotoluene	10.0	0.29 U	9.91	99	71-120	
4-Isopropyltoluene	10.0	0.43 U	9.09	91	64-122	
4-Methyl-2-pentanone (MIBK)	20.0	0.99 U	15.9	80	56-131	
Acetone	20.0	3.4 J	15.6	61	33-145	
Benzene	10.0	0.35 U	9.38	94	72-121	
Bromobenzene	10.0	0.35 U	9.84	98	71-120	
Bromoform	10.0	0.56 U	8.30	83	32-128	
Bromomethane	10.0	0.44 U	7.90	79	10-186	
Carbon disulfide	10.0	0.38 U	10.1	101	57-147	
Carbon tetrachloride	10.0	0.43 U	8.61	86	59-129	
Chlorobenzene	10.0	0.25 U	9.97	100	80-120	
Chlorodibromomethane	10.0	0.43 U	10.2	102	56-120	
Chloroethane	10.0	0.32 U	8.08	81	21-165	
Chloroform	10.0	0.25 U	9.96	100	76-120	
Chloromethane	10.0	0.44 U	7.57	76	33-132	
cis-1,2-Dichloroethene	10.0	0.26 U	9.44	94	70-120	
cis-1,3-Dichloropropene	10.0	0.46 U	8.79	88	51-120	
Dibromomethane	10.0	0.42 U	9.50	95	77-121	
Bromochloromethane	10.0	0.50 U	9.55	96	73-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5201.D

Lab ID: 240-48741-3 MS Client ID: WSP-4-032615 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	0.32 U	5.87	59	17-128	
Bromodichloromethane	10.0	0.29 U	9.41	94	67-120	
tert-Butyl alcohol	100	4.9 U	67.8	68	70-130	F1
Ethylbenzene	10.0	0.25 U	9.95	99	75-120	
Hexachlorobutadiene	10.0	0.35 U	8.58	86	27-132	
Isopropylbenzene	10.0	0.35 U	9.07	91	68-120	
Methyl tert-butyl ether	10.0	0.20 U	8.57	86	46-144	
Methylene Chloride	10.0	0.33 U	9.31	93	63-128	
m-Xylene & p-Xylene	10.0	0.24 U	9.82	98	75-120	
Naphthalene	10.0	0.45 U	10.5	105	15-158	
n-Butylbenzene	10.0	0.31 U	9.92	99	56-127	
N-Propylbenzene	10.0	0.40 U	9.57	96	64-124	
o-Xylene	10.0	0.25 U	9.51	95	76-120	
sec-Butylbenzene	10.0	0.48 U	9.30	93	60-120	
Styrene	10.0	0.45 U	8.78	88	71-120	
Tetrachloroethene	10.0	0.31 U	9.28	93	70-120	
Toluene	10.0	0.23 U	11.0	110	78-120	
trans-1,2-Dichloroethene	10.0	0.30 U	9.50	95	80-120	
trans-1,3-Dichloropropene	10.0	0.56 U	10.8	108	46-120	
Trichloroethene	10.0	0.22 U	9.56	96	66-120	
Trichlorofluoromethane	10.0	0.49 U	7.39	74	46-157	
Vinyl acetate	10.0	0.41 U	6.07	61	43-157	
Vinyl chloride	10.0	0.29 U	7.67	77	49-130	
Xylenes, Total	20.0	0.52 U	19.3	97	76-120	
tert-Butylbenzene	10.0	0.41 U	8.92	89	61-120	
1,2-Dibromoethane	10.0	0.32 U	10.7	107	74-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5202.D

Lab ID: 240-48741-3 MSD Client ID: WSP-4-032615 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	9.79	98	2	30	64-120	
1,1,1-Trichloroethane	10.0	9.51	95	3	30	68-121	
1,1,2,2-Tetrachloroethane	10.0	10.2	102	2	30	63-122	
1,1,2-Trichlorotrifluoroethane	10.0	7.97	80	39	30	70-152	F2
1,1-Dichloroethane	10.0	9.49	95	4	30	79-120	
1,1-Dichloroethene	10.0	8.65	87	1	30	74-135	
1,1-Dichloropropene	10.0	10.1	101	4	30	80-120	
1,2,3-Trichlorobenzene	10.0	11.0	110	5	30	45-129	
1,2,3-Trichloropropane	10.0	10.9	109	2	30	67-132	
1,2,4-Trichlorobenzene	10.0	11.2	112	4	30	38-138	
1,2,4-Trimethylbenzene	10.0	9.93	99	7	30	67-124	
1,2-Dibromo-3-Chloropropane	10.0	9.30	93	13	30	32-139	
1,2-Dichlorobenzene	10.0	10.8	108	4	30	75-120	
1,2-Dichloroethane	10.0	10.7	107	3	30	68-129	
1,2-Dichloropropane	10.0	9.05	90	1	30	78-120	
1,3-Dichlorobenzene	10.0	9.94	99	2	30	73-120	
1,3-Dichloropropane	10.0	10.3	103	4	30	74-120	
1,4-Dichlorobenzene	10.0	10.5	105	4	30	75-120	
2,2-Dichloropropane	10.0	8.39	84	4	30	38-127	
2-Butanone (MEK)	20.0	16.7	83	6	30	54-129	
2-Chloroethyl vinyl ether	12.0	0.59 U	0	NC	30	10-150	F1
2-Chlorotoluene	10.0	10.4	104	5	30	69-120	
2-Hexanone	20.0	18.3	92	3	30	47-139	
4-Chlorotoluene	10.0	10.4	104	5	30	71-120	
4-Isopropyltoluene	10.0	10.1	101	11	30	64-122	
4-Methyl-2-pentanone (MIBK)	20.0	15.9	79	0	30	56-131	
Acetone	20.0	16.5	65	5	30	33-145	
Benzene	10.0	9.26	93	1	30	72-121	
Bromobenzene	10.0	10.1	101	2	30	71-120	
Bromoform	10.0	7.84	78	6	30	32-128	
Bromomethane	10.0	7.91	79	0	30	10-186	
Carbon disulfide	10.0	10.3	103	2	30	57-147	
Carbon tetrachloride	10.0	9.03	90	5	30	59-129	
Chlorobenzene	10.0	9.99	100	0	30	80-120	
Chlorodibromomethane	10.0	9.66	97	5	30	56-120	
Chloroethane	10.0	7.88	79	2	30	21-165	
Chloroform	10.0	10.2	102	2	30	76-120	
Chloromethane	10.0	7.79	78	3	30	33-132	
cis-1,2-Dichloroethene	10.0	9.26	93	2	30	70-120	
cis-1,3-Dichloropropene	10.0	8.57	86	2	30	51-120	
Dibromomethane	10.0	9.66	97	2	30	77-121	
Bromochloromethane	10.0	9.27	93	3	30	73-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ5202.D

Lab ID: 240-48741-3 MSD Client ID: WSP-4-032615 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	7.34	73	22	30	17-128	
Bromodichloromethane	10.0	9.55	96	1	30	67-120	
tert-Butyl alcohol	100	68.6	69	1	30	70-130	F1
Ethylbenzene	10.0	9.84	98	1	30	75-120	
Hexachlorobutadiene	10.0	10.4	104	20	30	27-132	
Isopropylbenzene	10.0	9.35	94	3	30	68-120	
Methyl tert-butyl ether	10.0	8.26	83	4	30	46-144	
Methylene Chloride	10.0	9.18	92	1	30	63-128	
m-Xylene & p-Xylene	10.0	9.85	98	0	30	75-120	
Naphthalene	10.0	10.9	109	4	30	15-158	
n-Butylbenzene	10.0	10.6	106	7	30	56-127	
N-Propylbenzene	10.0	10.4	104	8	30	64-124	
o-Xylene	10.0	9.49	95	0	30	76-120	
sec-Butylbenzene	10.0	10.2	102	9	30	60-120	
Styrene	10.0	8.59	86	2	30	71-120	
Tetrachloroethene	10.0	10.1	101	9	30	70-120	
Toluene	10.0	10.8	108	2	30	78-120	
trans-1,2-Dichloroethene	10.0	9.53	95	0	30	80-120	
trans-1,3-Dichloropropene	10.0	10.1	101	6	30	46-120	
Trichloroethene	10.0	9.21	92	4	30	66-120	
Trichlorofluoromethane	10.0	8.73	87	17	30	46-157	
Vinyl acetate	10.0	6.00	60	1	30	43-157	
Vinyl chloride	10.0	8.15	82	6	30	49-130	
Xylenes, Total	20.0	19.3	97	0	30	76-120	
tert-Butylbenzene	10.0	9.89	99	10	30	61-120	
1,2-Dibromoethane	10.0	10.2	102	5	30	74-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab File ID: UXJ5189.D Lab Sample ID: MB 240-174260/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX11 Date Analyzed: 03/30/2015 12:15

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 240-174260/4	UXJ5186.D	03/30/2015 10:52
TB-032615	240-48741-1	UXJ5191.D	03/30/2015 13:00
WSP-2-032615	240-48741-2	UXJ5192.D	03/30/2015 13:23
WSP-4-032615	240-48741-3	UXJ5193.D	03/30/2015 13:45
WSP-4-032615 MS	240-48741-3 MS	UXJ5201.D	03/30/2015 16:50
WSP-4-032615 MSD	240-48741-3 MSD	UXJ5202.D	03/30/2015 17:13

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab File ID: UXM6947.D Lab Sample ID: MB 240-174410/6

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX16 Date Analyzed: 03/31/2015 10:03

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 240-174410/4	UXM6945.D	03/31/2015 09:18
WSP-2-032615	240-48741-2	UXM6948.D	03/31/2015 10:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab File ID: BFB218.D BFB Injection Date: 02/18/2015

Instrument ID: A3UX11 BFB Injection Time: 11:32

Analysis Batch No.: 168426

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.9	
75	30.0 - 60.0 % of mass 95	45.4	
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	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	71.4	
175	5.0 - 9.0 % of mass 174	5.5	(7.6)1
176	95.0 - 101.0 % of mass 174	69.1	(96.8)1
177	5.0 - 9.0 % of mass 176	4.6	(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 240-168426/2	UXJ4374.D	02/18/2015	12:05
	STD8260 240-168426/3	UXJ4375.D	02/18/2015	12:28
	STD8260 240-168426/4	UXJ4376.D	02/18/2015	12:50
	STD8260 240-168426/5	UXJ4377.D	02/18/2015	13:12
	STD8260 240-168426/6	UXJ4378.D	02/18/2015	13:35
	STD8260 240-168426/7	UXJ4379.D	02/18/2015	13:58
	ICV 240-168426/14	UXJ4380.D	02/18/2015	14:20
	STD6 240-168426/8	UXJ4381.D	02/18/2015	14:43
	STD5 240-168426/9	UXJ4382.D	02/18/2015	15:05
	STD4 240-168426/10	UXJ4383.D	02/18/2015	15:28
	STD3 240-168426/11	UXJ4384.D	02/18/2015	15:50
	STD2 240-168426/12	UXJ4385.D	02/18/2015	16:13
	STD1 240-168426/13	UXJ4386.D	02/18/2015	16:35
	ICV 240-168426/15	UXJ4387.D	02/18/2015	16:58

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab File ID: BFB330.D BFB Injection Date: 03/30/2015

Instrument ID: A3UX11 BFB Injection Time: 09:52

Analysis Batch No.: 174260

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	49.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.0	
173	Less than 2.0 % of mass 174	0.2	(0.3)1
174	50.0 - 120.00 % of mass 95	68.4	
175	5.0 - 9.0 % of mass 174	4.9	(7.2)1
176	95.0 - 101.0 % of mass 174	65.2	(95.2)1
177	5.0 - 9.0 % of mass 176	4.3	(6.5)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 240-174260/2	UXJ5185.D	03/30/2015	10:29
	LCS 240-174260/4	UXJ5186.D	03/30/2015	10:52
	CCV 240-174260/3	UXJ5187.D	03/30/2015	11:14
	MB 240-174260/6	UXJ5189.D	03/30/2015	12:15
TB-032615	240-48741-1	UXJ5191.D	03/30/2015	13:00
WSP-2-032615	240-48741-2	UXJ5192.D	03/30/2015	13:23
WSP-4-032615	240-48741-3	UXJ5193.D	03/30/2015	13:45
WSP-4-032615 MS	240-48741-3 MS	UXJ5201.D	03/30/2015	16:50
WSP-4-032615 MSD	240-48741-3 MSD	UXJ5202.D	03/30/2015	17:13

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab File ID: BFB4201.D BFB Injection Date: 01/14/2015

Instrument ID: A3UX16 BFB Injection Time: 14:28

Analysis Batch No.: 164166

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.8	
75	30.0 - 60.0 % of mass 95	50.7	
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	0.9	(1.0)1
174	50.0 - 120.00 % of mass 95	87.7	
175	5.0 - 9.0 % of mass 174	6.4	(7.3)1
176	95.0 - 101.0 % of mass 174	86.0	(98.0)1
177	5.0 - 9.0 % of mass 176	4.9	(5.7)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
	STDA9 240-164166/3	UXM06235.D	01/14/2015	15:28
	STDA9 240-164166/4	UXM06236.D	01/14/2015	15:51
	STDA9 240-164166/5	UXM06237.D	01/14/2015	16:14
	STDA9 240-164166/6	UXM06238.D	01/14/2015	16:36
	STDA9 240-164166/7	UXM06239.D	01/14/2015	16:59
	STDA9 240-164166/8	UXM06240.D	01/14/2015	17:21

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab File ID: BFB4206.D BFB Injection Date: 01/22/2015

Instrument ID: A3UX16 BFB Injection Time: 07:35

Analysis Batch No.: 164959

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	27.8	
75	30.0 - 60.0 % of mass 95	51.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.8	(1.1)1
174	50.0 - 120.00 % of mass 95	74.9	
175	5.0 - 9.0 % of mass 174	6.3	(8.4)1
176	95.0 - 101.0 % of mass 174	74.8	(99.7)1
177	5.0 - 9.0 % of mass 176	5.3	(7.1)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 240-164959/2	UXM06313.D	01/22/2015	07:59
	STD8260 240-164959/3	UXM06314.D	01/22/2015	08:22
	STD8260 240-164959/4	UXM06315.D	01/22/2015	08:44
	STD8260 240-164959/5	UXM06316.D	01/22/2015	09:07
	STD8260 240-164959/6	UXM06317.D	01/22/2015	09:29
	STD8260 240-164959/7	UXM06318.D	01/22/2015	09:52
	ICV 240-164959/8	UXM06319.D	01/22/2015	10:17

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab File ID: BFB4257.D BFB Injection Date: 03/31/2015

Instrument ID: A3UX16 BFB Injection Time: 08:05

Analysis Batch No.: 174410

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	25.9	
75	30.0 - 60.0 % of mass 95	45.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.7	(0.9)1
174	50.0 - 120.00 % of mass 95	80.6	
175	5.0 - 9.0 % of mass 174	6.0	(7.5)1
176	95.0 - 101.0 % of mass 174	81.4	(100.9)1
177	5.0 - 9.0 % of mass 176	5.0	(6.1)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 240-174410/2	UXM6943.D	03/31/2015	08:32
	CCV 240-174410/3	UXM6944.D	03/31/2015	08:55
	LCS 240-174410/4	UXM6945.D	03/31/2015	09:18
	MB 240-174410/6	UXM6947.D	03/31/2015	10:03
WSP-2-032615	240-48741-2	UXM6948.D	03/31/2015	10:42

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Sample No.: STD8260 240-168426/4 Date Analyzed: 02/18/2015 12:50

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ4376.D Heated Purge: (Y/N) N

Calibration ID: 26923

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		964859	5.15	694462	7.83	256362	10.06
UPPER LIMIT		1929718	5.65	1388924	8.33	512724	10.56
LOWER LIMIT		482430	4.65	347231	7.33	128181	9.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-168426/14		909387	5.15	644530	7.83	232918	10.06
ICV 240-168426/15		944444	5.15	685905	7.83	248697	10.06
CCVIS 240-174260/2		1343826	5.15	800228	7.83	258169	10.06

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 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Sample No.: CCVIS 240-174260/2 Date Analyzed: 03/30/2015 10:29

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ5185.D Heated Purge: (Y/N) N

Calibration ID: 27466

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1343826	5.15	800228	7.83	258169	10.06
UPPER LIMIT		2687652	5.65	1600456	8.33	516338	10.56
LOWER LIMIT		671913	4.65	400114	7.33	129085	9.56
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-174260/4		1111485	5.15	675455	7.83	216439	10.06
CCV 240-174260/3		1000786	5.15	630321	7.83	187758	10.06
MB 240-174260/6		943703	5.15	585184	7.83	178964	10.07
240-48741-1	TB-032615	897397	5.15	579898	7.83	165037	10.06
240-48741-2	WSP-2-032615	903509	5.15	571828	7.83	168324	10.06
240-48741-3	WSP-4-032615	925136	5.15	583849	7.83	182885	10.06
240-48741-3 MS	WSP-4-032615 MS	916393	5.15	562270	7.83	185869	10.07
240-48741-3 MSD	WSP-4-032615 MSD	934814	5.16	581021	7.82	180328	10.06

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 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Sample No.: STD8260 240-164959/4 Date Analyzed: 01/22/2015 08:44

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM06315.D Heated Purge: (Y/N) N

Calibration ID: 26368

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		2041260	5.59	1491056	8.28	834473	10.51
UPPER LIMIT		4082520	6.09	2982112	8.78	1668946	11.01
LOWER LIMIT		1020630	5.09	745528	7.78	417237	10.01
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-164959/8		1964069	5.59	1405551	8.28	819291	10.51
CCVIS 240-174410/2		1790297	5.59	1276558	8.28	752380	10.51

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 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Sample No.: CCVIS 240-174410/2 Date Analyzed: 03/31/2015 08:32

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXM6943.D Heated Purge: (Y/N) N

Calibration ID: 26768

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1790297	5.59	1276558	8.28	752380	10.51
UPPER LIMIT		3580594	6.09	2553116	8.78	1504760	11.01
LOWER LIMIT		895149	5.09	638279	7.78	376190	10.01
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-174410/3		1760123	5.59	1309345	8.28	666961	10.51
LCS 240-174410/4		1780441	5.59	1314881	8.28	755958	10.51
MB 240-174410/6		1702984	5.59	1263988	8.28	660249	10.51
240-48741-2	WSP-2-032615	1743632	5.59	1267628	8.28	639371	10.51

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: TB-032615 | Lab Sample ID: 240-48741-1

Matrix: Water | Lab File ID: UXJ5191.D

Analysis Method: 8260C | Date Collected: 03/26/2015 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 13:00

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	1.0	0.45
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.42	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.44	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
142-28-9	1,3-Dichloropropane	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	0.53	U	10	0.53
110-75-8	2-Chloroethyl vinyl ether	0.59	U *	10	0.59
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40
591-78-6	2-Hexanone	0.48	U	10	0.48
106-43-4	4-Chlorotoluene	0.29	U	1.0	0.29
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	0.99	U	10	0.99
67-64-1	Acetone	2.0	J B	10	0.94
71-43-2	Benzene	0.35	U	1.0	0.35
108-86-1	Bromobenzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	1.0	0.44
75-15-0	Carbon disulfide	0.38	U	1.0	0.38
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: TB-032615 | Lab Sample ID: 240-48741-1

Matrix: Water | Lab File ID: UXJ5191.D

Analysis Method: 8260C | Date Collected: 03/26/2015 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 13:00

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.42	U	1.0	0.42
74-97-5	Bromochloromethane	0.50	U	1.0	0.50
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
75-27-4	Bromodichloromethane	0.29	U	1.0	0.29
75-65-0	tert-Butyl alcohol	4.9	U	50	4.9
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.50	U	10	0.50
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.33	U	1.0	0.33
179601-23-1	m-Xylene & p-Xylene	0.24	U	2.0	0.24
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.31	U	1.0	0.31
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.25	U	1.0	0.25
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.30	U	5.0	0.30
637-92-3	Ethyl tert-butyl ether	0.23	U	5.0	0.23
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.52	U	2.0	0.52
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.32	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Client Sample ID: TB-032615 Lab Sample ID: 240-48741-1

Matrix: Water Lab File ID: UXJ5191.D

Analysis Method: 8260C Date Collected: 03/26/2015 00:00

Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 13:00

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.: 174260 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	106		74-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-121
460-00-4	4-Bromofluorobenzene (Surr)	90		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-2-032615 | Lab Sample ID: 240-48741-2

Matrix: Water | Lab File ID: UXJ5192.D

Analysis Method: 8260C | Date Collected: 03/26/2015 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 13:23

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	1.0	0.45
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.42	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.44	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
142-28-9	1,3-Dichloropropane	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	25		10	0.53
110-75-8	2-Chloroethyl vinyl ether	0.59	U *	10	0.59
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40
591-78-6	2-Hexanone	0.48	U	10	0.48
106-43-4	4-Chlorotoluene	0.29	U	1.0	0.29
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	0.99	U	10	0.99
71-43-2	Benzene	0.35	U	1.0	0.35
108-86-1	Bromobenzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	1.0	0.44
75-15-0	Carbon disulfide	0.38	U	1.0	0.38
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-2-032615 | Lab Sample ID: 240-48741-2

Matrix: Water | Lab File ID: UXJ5192.D

Analysis Method: 8260C | Date Collected: 03/26/2015 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 13:23

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	0.25	U	1.0	0.25
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.42	U	1.0	0.42
74-97-5	Bromochloromethane	0.50	U	1.0	0.50
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
75-27-4	Bromodichloromethane	0.29	U	1.0	0.29
75-65-0	tert-Butyl alcohol	4.9	U	50	4.9
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.50	U	10	0.50
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.33	U	1.0	0.33
179601-23-1	m-Xylene & p-Xylene	0.24	U	2.0	0.24
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.31	U	1.0	0.31
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.25	U	1.0	0.25
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.30	U	5.0	0.30
637-92-3	Ethyl tert-butyl ether	0.23	U	5.0	0.23
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.52	U	2.0	0.52
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.32	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-2-032615 Lab Sample ID: 240-48741-2

Matrix: Water Lab File ID: UXJ5192.D

Analysis Method: 8260C Date Collected: 03/26/2015 11:10

Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 13:23

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.: 174260 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	104		74-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
460-00-4	4-Bromofluorobenzene (Surr)	88		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-2-032615 | Lab Sample ID: 240-48741-2

Matrix: Water | Lab File ID: UXM6948.D

Analysis Method: 8260C | Date Collected: 03/26/2015 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 03/31/2015 10:42

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.: 174410 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	57	B	10	0.94

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		74-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
460-00-4	4-Bromofluorobenzene (Surr)	96		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-4-032615 | Lab Sample ID: 240-48741-3

Matrix: Water | Lab File ID: UXJ5193.D

Analysis Method: 8260C | Date Collected: 03/26/2015 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 13:45

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U F1 F2	1.0	0.45
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.42	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.44	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
142-28-9	1,3-Dichloropropane	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	0.53	U	10	0.53
110-75-8	2-Chloroethyl vinyl ether	0.59	U * F1	10	0.59
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40
591-78-6	2-Hexanone	0.48	U	10	0.48
106-43-4	4-Chlorotoluene	0.29	U	1.0	0.29
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	0.99	U	10	0.99
67-64-1	Acetone	3.4	J B	10	0.94
71-43-2	Benzene	0.35	U	1.0	0.35
108-86-1	Bromobenzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	1.0	0.44
75-15-0	Carbon disulfide	0.38	U	1.0	0.38
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-4-032615 | Lab Sample ID: 240-48741-3

Matrix: Water | Lab File ID: UXJ5193.D

Analysis Method: 8260C | Date Collected: 03/26/2015 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 13:45

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.42	U	1.0	0.42
74-97-5	Bromochloromethane	0.50	U	1.0	0.50
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
75-27-4	Bromodichloromethane	0.29	U	1.0	0.29
75-65-0	tert-Butyl alcohol	4.9	U F1	50	4.9
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.50	U	10	0.50
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.33	U	1.0	0.33
179601-23-1	m-Xylene & p-Xylene	0.24	U	2.0	0.24
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.31	U	1.0	0.31
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.25	U	1.0	0.25
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.30	U	5.0	0.30
637-92-3	Ethyl tert-butyl ether	0.23	U	5.0	0.23
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.52	U	2.0	0.52
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-4-032615 | Lab Sample ID: 240-48741-3

Matrix: Water | Lab File ID: UXJ5193.D

Analysis Method: 8260C | Date Collected: 03/26/2015 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 13:45

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
106-93-4	1,2-Dibromoethane	0.32	U	1.0	0.32

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		74-120
1868-53-7	Dibromofluoromethane (Surr)	97		75-121
460-00-4	4-Bromofluorobenzene (Surr)	86		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		63-129

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 12:05 Calibration End Date: 02/18/2015 13:58 Calibration ID: 26923

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-168426/7	UXJ4379.D
Level 2	STD8260 240-168426/6	UXJ4378.D
Level 3	STD8260 240-168426/5	UXJ4377.D
Level 4	STD8260 240-168426/4	UXJ4376.D
Level 5	STD8260 240-168426/3	UXJ4375.D
Level 6	STD8260 240-168426/2	UXJ4374.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	0.2478 0.2543	0.2436	0.2527	0.2597	0.2451	Ave		0.2505			0.1000	2.5		15.0			
Chloromethane	0.3172 0.2645	0.3115	0.3155	0.2871	0.3107	Ave		0.3011			0.1000	7.0		15.0			
Vinyl chloride	0.2863 0.2521	0.2889	0.2965	0.2745	0.2816	Ave		0.2800			0.1000	5.5		15.0			
Bromomethane	0.1728 0.1416	0.1601	0.1495	0.1394	0.1615	Ave		0.1542			0.0500	8.4		15.0			
Chloroethane	0.1669 0.1496	0.1759	0.1638	0.1532	0.1658	Ave		0.1625				5.9		15.0			
Dichlorofluoromethane	0.4392 0.3360	0.4122	0.3918	0.3585	0.3817	Ave		0.3866				9.6		15.0			
Trichlorofluoromethane	0.3241 0.3258	0.3084	0.3342	0.3278	0.3285	Ave		0.3248			0.1000	2.7		15.0			
Ethyl ether	0.2963 0.2639	0.3012	0.3221	0.2979	0.3152	Ave		0.2994				6.7		15.0			
Acrolein	0.0161	0.0094	0.0121	0.0126	0.0122	Lin1	0.0049	0.0121							0.9910		0.9900
1,1-Dichloroethene	0.3433 0.2586	0.3073	0.3056	0.2770	0.2814	Ave		0.2956			0.1000	10.0		15.0			
1,1,2-Trichlorotrifluoroethane	0.1383 0.1557	0.1400	0.1562	0.1547	0.1527	Ave		0.1496			0.0500	5.5		15.0			
Acetone	0.1016	0.0928	0.0844	0.0739	0.0730	Ave		0.0851			0.0500	14.0		15.0			
Iodomethane	0.3400 0.3014	0.3561	0.3621	0.3038	0.3389	Ave		0.3337				7.7		15.0			
Carbon disulfide	0.8272 0.7046	0.7949	0.8277	0.7406	0.7680	Ave		0.7772			0.1000	6.3		15.0			
3-Chloro-1-propene	0.2526 0.2468	0.2862	0.2810	0.2646	0.2829	Ave		0.2690				6.3		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 12:05 Calibration End Date: 02/18/2015 13:58 Calibration ID: 26923

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								
Methyl acetate	0.2069 0.1679	0.2104	0.1941	0.1891	0.1894	Ave		0.1930			0.1000	7.9		15.0			
Methylene Chloride	0.3938 0.2820	0.3631	0.3616	0.3021	0.3285	Ave		0.3385			0.1000	12.0		15.0			
tert-Butyl alcohol	0.0195 0.0141	0.0197	0.0189	0.0163	0.0171	Ave		0.0176				12.0		15.0			
Acrylonitrile	0.1026 0.0844	0.1013	0.0966	0.0951	0.0946	Ave		0.0958				6.8		15.0			
Methyl tert-butyl ether	1.0640 0.8950	1.0871	1.0404	0.9918	1.0333	Ave		1.0186			0.1000	6.7		15.0			
trans-1,2-Dichloroethene	0.3933 0.3522	0.4066	0.4120	0.3780	0.3949	Ave		0.3895			0.1000	5.6		15.0			
Hexane	0.0953 0.1130	0.1009	0.1032	0.1138	0.1058	Ave		0.1053				6.8		15.0			
1,1-Dichloroethane	0.6778 0.5961	0.6817	0.6818	0.6380	0.6795	Ave		0.6592			0.1000	5.3		15.0			
Vinyl acetate	0.3201 0.2584	0.3307	0.2962	0.2748	0.2943	Ave		0.2958				9.1		15.0			
2,2-Dichloropropane	0.4040 0.3168	0.3778	0.3991	0.3511	0.3813	Ave		0.3717				8.8		15.0			
2-Butanone (MEK)	0.1207 0.0834	0.1192	0.1067	0.0990	0.1019	Ave		0.1052			0.0500	13.0		15.0			
cis-1,2-Dichloroethene	0.4109 0.3631	0.4333	0.4256	0.3929	0.4190	Ave		0.4075			0.1000	6.3		15.0			
Bromochloromethane	0.1698 0.1553	0.1878	0.1722	0.1619	0.1824	Ave		0.1716				7.1		15.0			
Tetrahydrofuran	0.0994 0.0577	0.0906	0.0732	0.0696	0.0665	Lin1	0.1045	0.0598							0.9940		0.9900
Chloroform	0.6089 0.5295	0.6733	0.6184	0.5667	0.6156	Ave		0.6021				8.2		15.0			
1,1,1-Trichloroethane	0.4774 0.4103	0.4823	0.4866	0.4437	0.4709	Ave		0.4619			0.1000	6.4		15.0			
Cyclohexane	0.5963 0.5297	0.5756	0.5647	0.5677	0.5525	Ave		0.5644			0.1000	4.0		15.0			
1,1-Dichloropropene	0.4797 0.4574	0.5078	0.4987	0.4683	0.4996	Ave		0.4852				4.1		15.0			
Carbon tetrachloride	0.3870 0.3698	0.3742	0.4068	0.3787	0.4001	Ave		0.3861			0.1000	3.8		15.0			
Isobutyl alcohol	0.0092 0.0063	0.0084	0.0073	0.0071	0.0074	Ave		0.0076				13.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 12:05 Calibration End Date: 02/18/2015 13:58 Calibration ID: 26923

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								
Benzene	1.6053 1.4253	1.6723	1.6456	1.5007	1.6275	Ave		1.5795			0.5000	6.1		15.0			
1,2-Dichloroethane	0.4261 0.3850	0.4453	0.4457	0.4079	0.4388	Ave		0.4248			0.1000	5.7		15.0			
n-Heptane	0.0855 0.1074	0.0848	0.0879	0.1098	0.0975	Ave		0.0955				12.0		15.0			
Trichloroethene	0.3722 0.3386	0.3759	0.3801	0.3543	0.3787	Ave		0.3666			0.2000	4.5		15.0			
Methylcyclohexane	0.5728 0.5964	0.6002	0.5900	0.6072	0.5851	Ave		0.5920			0.1000	2.1		15.0			
1,2-Dichloropropane	0.3839 0.3351	0.4054	0.3900	0.3649	0.3906	Ave		0.3783			0.1000	6.6		15.0			
Dibromomethane	0.1973 0.1597	0.2023	0.1870	0.1776	0.1860	Ave		0.1850				8.2		15.0			
1,4-Dioxane	0.0015	0.0014	0.0022	0.0022	0.0022	Lin1	-0.020	0.0023							0.9960		0.9900
Bromodichloromethane	0.4563 0.4108	0.4972	0.4776	0.4316	0.4791	Ave		0.4588			0.1000	7.1		15.0			
2-Chloroethyl vinyl ether	0.3774 0.3108	0.3677	0.3727	0.3546	0.3631	Ave		0.3577				6.8		15.0			
cis-1,3-Dichloropropene	0.5650 0.5301	0.6210	0.6116	0.5694	0.6176	Ave		0.5858			0.1500	6.3		15.0			
4-Methyl-2-pentanone (MIBK)	0.2658 0.1994	0.2475	0.2315	0.2291	0.2320	Ave		0.2342			0.0500	9.4		15.0			
Toluene	2.3489 2.0179	2.3566	2.3711	2.1976	2.3515	Ave		2.2740			0.4000	6.2		15.0			
trans-1,3-Dichloropropene	0.6056 0.5903	0.7062	0.6928	0.6605	0.7071	Ave		0.6604			0.1000	7.8		15.0			
Ethyl methacrylate	0.5903 0.4615	0.5466	0.5603	0.5300	0.5397	Ave		0.5381				8.0		15.0			
1,1,2-Trichloroethane	0.4231 0.3441	0.4137	0.4115	0.3914	0.4080	Ave		0.3986			0.1000	7.2		15.0			
Tetrachloroethene	0.3626 0.3273	0.3782	0.3773	0.3487	0.3697	Ave		0.3606			0.2000	5.4		15.0			
1,3-Dichloropropane	0.7815 0.6354	0.7847	0.7608	0.7158	0.7490	Ave		0.7379				7.6		15.0			
2-Hexanone	0.2177 0.1697	0.2372	0.2186	0.2197	0.2118	Ave		0.2125			0.0500	11.0		15.0			
Chlorodibromomethane	0.4072 0.3621	0.4056	0.4107	0.4000	0.4209	Ave		0.4011				5.1		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 12:05 Calibration End Date: 02/18/2015 13:58 Calibration ID: 26923

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-Dibromoethane	0.4004 0.3151	0.3938	0.3797	0.3600	0.3721	Ave		0.3702				8.3		15.0			
Chlorobenzene	1.4147 1.1188	1.3679	1.3621	1.2504	1.3533	Ave		1.3112			0.3000	8.3		15.0			
1,1,1,2-Tetrachloroethane	0.4150 0.3507	0.4388	0.4250	0.3948	0.4235	Ave		0.4080				7.7		15.0			
Ethylbenzene	0.7105 0.6406	0.7542	0.7776	0.7199	0.7672	Ave		0.7283				6.9		15.0			
m-Xylene & p-Xylene	0.9339 0.7689	0.9391	0.9447	0.8797	0.9382	Ave		0.9008				7.6		15.0			
o-Xylene	0.9055 0.7103	0.8982	0.9105	0.8125	0.8776	Ave		0.8525				9.2		15.0			
Styrene	1.4379 1.1509	1.4537	1.4510	1.3462	1.4250	Ave		1.3775			0.3000	8.6		15.0			
Bromoform	0.1834 0.1739	0.1962	0.2079	0.1973	0.2102	Ave		0.1948			0.1000	7.2		15.0			
Isopropylbenzene	2.1119 1.7486	2.2085	2.2078	2.0359	2.1341	Ave		2.0744			0.1000	8.3		15.0			
1,1,2,2-Tetrachloroethane	1.1043 0.9160	1.1013	1.0906	1.0268	1.0245	Ave		1.0439			0.3000	6.9		15.0			
Bromobenzene	1.2002 1.0695	1.2557	1.2658	1.1549	1.2495	Ave		1.1992				6.3		15.0			
1,2,3-Trichloropropane	0.3125 0.2805	0.3821	0.3493	0.3318	0.3211	Ave		0.3295				10.0		15.0			
trans-1,4-Dichloro-2-butene	0.2061 0.2531	0.2395	0.2488	0.2353	0.2633	Ave		0.2410				8.2		15.0			
N-Propylbenzene	1.4286 1.3271	1.5148	1.4833	1.3891	1.5160	Ave		1.4431				5.2		15.0			
2-Chlorotoluene	1.2530 1.0469	1.2844	1.2478	1.0910	1.1893	Ave		1.1854				8.1		15.0			
1,3,5-Trimethylbenzene	4.2187 3.6631	4.4116	4.3569	3.8823	4.1931	Ave		4.1210				7.0		15.0			
4-Chlorotoluene	1.2513 1.0542	1.2369	1.2900	1.1302	1.2436	Ave		1.2010				7.5		15.0			
tert-Butylbenzene	3.4547 2.9917	3.5738	3.6189	3.2413	3.4343	Ave		3.3858				6.9		15.0			
1,2,4-Trimethylbenzene	4.1179 3.6261	4.4757	4.3932	3.8846	4.2422	Ave		4.1233				7.8		15.0			
sec-Butylbenzene	4.5241 4.1277	4.8589	4.8634	4.3903	4.7384	Ave		4.5838				6.4		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 12:05 Calibration End Date: 02/18/2015 13:58 Calibration ID: 26923

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								
1,3-Dichlorobenzene	2.0084 1.7306	2.0598	2.1534	1.8375	2.0190	Ave		1.9681			0.6000	7.9		15.0			
4-Isopropyltoluene	3.7620 3.3708	3.8713	3.9282	3.6113	3.8854	Ave		3.7382				5.7		15.0			
1,4-Dichlorobenzene	2.0073 1.7602	2.0470	2.0719	1.8477	2.0026	Ave		1.9561			0.5000	6.3		15.0			
n-Butylbenzene	3.0087 2.7767	3.1085	3.2066	2.8357	3.0889	Ave		3.0042				5.6		15.0			
1,2-Dichlorobenzene	1.7764 1.5873	1.8748	1.8745	1.6514	1.7840	Ave		1.7580			0.4000	6.7		15.0			
1,2-Dibromo-3-Chloropropane	0.1260 0.1280	0.1473	0.1550	0.1453	0.1467	Ave		0.1414			0.0500	8.2		15.0			
1,2,4-Trichlorobenzene	1.0128 0.8340	1.0016	1.0404	0.9081	1.0227	Ave		0.9700			0.2000	8.4		15.0			
Hexachlorobutadiene	0.3156 0.2648	0.3353	0.3293	0.3055	0.3191	Ave		0.3116				8.1		15.0			
Naphthalene	2.9555 2.1782	2.9030	2.8529	2.6535	2.7560	Ave		2.7165				10.0		15.0			
1,2,3-Trichlorobenzene	1.0267 0.6791	0.9576	0.9054	0.8582	0.9153	Ave		0.8904				13.0		15.0			
Dibromofluoromethane (Surr)	0.3111 0.2654	0.2991	0.2896	0.2869	0.3115	Ave		0.2939				5.9		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3823 0.3259	0.3372	0.3536	0.3492	0.3873	Ave		0.3559				6.9		15.0			
Toluene-d8 (Surr)	1.9702 1.6500	1.8776	1.8916	1.8363	1.9963	Ave		1.8703				6.6		15.0			
4-Bromofluorobenzene (Surr)	0.6249 0.4420	0.5803	0.5664	0.5586	0.5801	Ave		0.5587				11.0		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 12:05 Calibration End Date: 02/18/2015 13:58 Calibration ID: 26923

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-168426/7	UXJ4379.D
Level 2	STD8260 240-168426/6	UXJ4378.D
Level 3	STD8260 240-168426/5	UXJ4377.D
Level 4	STD8260 240-168426/4	UXJ4376.D
Level 5	STD8260 240-168426/3	UXJ4375.D
Level 6	STD8260 240-168426/2	UXJ4374.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	24041 1140864	45286	120611	250577	475412	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	30778 1186673	57925	150602	277002	602638	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	27782 1131045	53720	141532	264888	546257	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	16761 635185	29765	71372	134531	313328	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	16194 671022	32712	78187	147854	321614	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	42615 1507425	76648	187009	345878	740230	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	31447 1461684	57341	159539	316253	637203	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	28749 1184107	55996	153748	287441	611264	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Lin1	7799	8699	28833	60660	118008	5.00	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	33312 1160427	57145	145888	267279	545783	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	13421 698411	26028	74555	149278	296085	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Ave	19721	34494	80537	142538	283201	2.00	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	32991 1352204	66215	172825	293113	657371	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	80261 3161321	147794	395082	714597	1489565	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	24508 1107085	53219	134106	255338	548676	1.00 40.0	2.00	5.00	10.0	20.0
Methyl acetate	FB	Ave	100373 3765341	195633	463335	912483	1836811	5.00 200	10.0	25.0	50.0	100

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 12:05 Calibration End Date: 02/18/2015 13:58 Calibration ID: 26923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methylene Chloride	FB	Ave	38209 1265068	67515	172605	291451	637208	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butyl alcohol	FB	Ave	18899 634063	36681	90357	157268	331501	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	99574 3786890	188386	461316	917941	1833925	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	103233 4015551	202133	496587	956949	2004109	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	38160 1580089	75600	196641	364748	765968	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	9251 506894	18755	49248	109787	205296	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	65767 2674260	126745	325448	615608	1317944	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	31056 1159169	61486	141378	265176	570881	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	39198 1421512	70239	190511	338778	739596	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	23425 748640	44320	101873	191015	395302	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	39864 1629178	80561	203144	379122	812761	1.00 40.0	2.00	5.00	10.0	20.0
Bromochloromethane	FB	Ave	16473 696660	34921	82207	156218	353721	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Lin1	19295 517771	33674	69843	134373	257790	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	59077 2375557	125190	295149	546792	1193914	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	46324 1840666	89676	232262	428071	913421	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	57851 2376663	107029	269519	547710	1071654	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	46545 2052094	94422	238024	451835	968982	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	37552 1659274	69581	194159	365401	776068	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBZ	Ave	15838 515099	28394	62476	123790	258254	25.0 1000	50.0	125	250	500
Benzene	FB	Ave	155751 6394559	310947	785475	1447988	3156545	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane	FB	Ave	41344 1727465	82792	212736	393549	851068	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 12:05 Calibration End Date: 02/18/2015 13:58 Calibration ID: 26923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Heptane	FB	Ave	8300 481732	15772	41965	105958	189081	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	36109 1519283	69885	181445	341896	734475	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	55579 2675801	111599	281635	585884	1134872	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	37252 1503249	75385	186157	352033	757549	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	19140 716363	37612	89265	171368	360789	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Lin1	2920	5088	21412	42008	84789	20.0	40.0	100	200	400
Bromodichloromethane	FB	Ave	44276 1842919	92438	227975	416451	929298	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	43941 1673400	82050	213461	410583	845038	1.20 48.0	2.40	6.00	12.0	24.0
cis-1,3-Dichloropropene	FB	Ave	54821 2378199	115472	291899	549422	1197942	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	51573 1789083	92037	220997	442024	900000	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	162256 6613529	319011	814634	1526175	3291131	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	41831 1934742	95594	238036	458701	989588	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	40776 1512675	73994	192494	368061	755363	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	29225 1127697	56003	141381	271844	570999	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	25044 1072691	51198	129641	242169	517430	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	53981 2082596	106219	261380	497075	1048358	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	30078 1112369	64232	150204	305089	592964	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Ave	28129 1186894	54910	141099	277810	589070	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	27661 1032662	53312	130453	249990	520811	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	97723 3666879	185169	467960	868353	1894019	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	28669 1149467	59398	146003	274203	592680	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 12:05 Calibration End Date: 02/18/2015 13:58 Calibration ID: 26923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethylbenzene	CBZ	Ave	49082 2099526	102098	267141	499956	1073767	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	64513 2520070	127127	324579	610893	1313077	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	62549 2328093	121594	312825	564263	1228334	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	99326 3772101	196787	498502	934879	1994463	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	12667 570033	26564	71443	137050	294233	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	145882 5730736	298960	758506	1413825	2986810	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	28263 994087	53283	136528	263220	515617	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	30716 1160622	60753	158461	296060	628878	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	7997 304360	18488	43722	85052	161595	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	5274 274707	11589	31144	60330	132532	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	36563 1440178	73290	185685	356113	763011	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	32069 1136076	62143	156212	279680	598571	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	107971 3975321	213448	545421	995277	2110338	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	32026 1144036	59845	161484	289738	625893	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	88418 3246604	172910	453037	830946	1728455	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	105391 3935098	216546	549970	995871	2135054	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	115787 4479484	235088	608835	1125508	2384806	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	51403 1878093	99660	269572	471077	1016143	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	96282 3658024	187307	491752	925812	1955467	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	51373 1910239	99039	259379	473684	1007878	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	77004 3013293	150399	401423	726977	1554617	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 12:05 Calibration End Date: 02/18/2015 13:58 Calibration ID: 26923

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	45463 1722584	90707	234661	423355	897848	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	3224 138950	7128	19404	37261	73809	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	25922 905123	48459	130245	232809	514724	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	8077 287329	16223	41219	78324	160579	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	75641 2363797	140454	357147	680246	1387074	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	26276 736957	46333	113349	220019	460646	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	30186 1190577	55604	138211	276854	604260	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	37090 1462202	62692	168757	336882	751161	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	136099 5407607	254167	649895	1275224	2793974	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	43164 1448510	78550	194583	387942	811959	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 14:43 Calibration End Date: 02/18/2015 16:35 Calibration ID: 26925

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-168426/13	UXJ4386.D
Level 2	STD2 240-168426/12	UXJ4385.D
Level 3	STD3 240-168426/11	UXJ4384.D
Level 4	STD4 240-168426/10	UXJ4383.D
Level 5	STD5 240-168426/9	UXJ4382.D
Level 6	STD6 240-168426/8	UXJ4381.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								
Acetonitrile	0.0240 0.0249	0.0284	0.0269	0.0227	0.0248	Ave		0.0253				8.1		15.0			
Diisopropyl ether	0.3722 0.3625	0.3743	0.3736	0.3566	0.3736	Ave		0.3688				2.0		15.0			
2-Chloro-1,3-butadiene	0.5546 0.5509	0.5751	0.5800	0.5362	0.5691	Ave		0.5610				3.0		15.0			
Ethyl tert-butyl ether	1.1566 1.1381	1.1663	1.1602	1.1133	1.1537	Ave		1.1480				1.7		15.0			
Ethyl acetate	0.0663 0.0754	0.0742	0.0751	0.0768	0.0728	Ave		0.0734				5.1		15.0			
Propionitrile	0.0328 0.0325	0.0329	0.0302	0.0320	0.0311	Ave		0.0319				3.4		15.0			
Methacrylonitrile	0.1635 0.1697	0.1775	0.1634	0.1664	0.1645	Ave		0.1675				3.2		15.0			
Tert-amyl methyl ether	1.0571 1.0890	1.1390	1.0682	1.0554	1.0700	Ave		1.0798				2.9		15.0			
n-Butanol	0.0079 0.0075	0.0088	0.0070	0.0075	0.0078	Ave		0.0078				8.0		15.0			
Ethyl acrylate	0.3894 0.3791	0.3760	0.3568	0.3666	0.3691	Ave		0.3728				3.0		15.0			
Methyl methacrylate	0.2704 0.2608	0.2552	0.2542	0.2557	0.2544	Ave		0.2585				2.5		15.0			
2-Nitropropane	0.0673 0.0636	0.0684	0.0662	0.0636	0.0619	Ave		0.0651				3.8		15.0			
1-Chlorohexane	0.6826 0.6555	0.6445	0.6482	0.6326	0.6791	Ave		0.6571				3.0		15.0			
Cyclohexanone	0.0336 0.0218	0.0407	0.0230	0.0243	0.0228	Lin1	0.1963	0.0216							0.9900		0.9900
1,2,3-Trimethylbenzene	4.1427 3.9385	4.0830	4.0823	3.8649	4.1000	Ave		4.0352				2.7		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 14:43 Calibration End Date: 02/18/2015 16:35 Calibration ID: 26925

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								
1,3,5-Trichlorobenzene	1.0901 0.9918	0.9969	1.0392	1.0079	1.0370	Ave		1.0271				3.6		15.0			
2-Methylnaphthalene	1.7106 1.6161	1.8904	1.6654	1.7533	1.6989	Lin	1.3453	1.6146							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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 14:43 Calibration End Date: 02/18/2015 16:35 Calibration ID: 26925

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-168426/13	UXJ4386.D
Level 2	STD2 240-168426/12	UXJ4385.D
Level 3	STD3 240-168426/11	UXJ4384.D
Level 4	STD4 240-168426/10	UXJ4383.D
Level 5	STD5 240-168426/9	UXJ4382.D
Level 6	STD6 240-168426/8	UXJ4381.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	22067 951314	50409	123161	213495	454800	10.0 400	20.0	50.0	100	200
Diisopropyl ether	FB	Ave	34267 1385475	66402	171286	335481	685549	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	51065 2105370	102033	265940	504347	1044365	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	106492 4349583	206905	531912	1047231	2117162	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	12215 576692	26340	68826	144458	267266	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	30228 1241614	58373	138362	301044	571176	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	150584 6485507	314843	749179	1565696	3018803	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	97339 4161893	202072	489738	992714	1963501	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	CBZ	Ave	13256 514874	28335	58071	127603	253684	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	35858 1448975	66700	163606	344821	677258	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	49802 1993138	90558	233119	481070	933853	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	12390 486020	24255	60659	119737	227014	2.00 80.0	4.00	10.0	20.0	40.0
1-Chlorohexane	CBZ	Ave	45734 1804709	82738	215589	430951	880868	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Lin1	7881 220469	18560	27767	59642	109583	10.0 400	20.0	50.0	100	200
1,2,3-Trimethylbenzene	DCB	Ave	97205 3986140	185989	492766	947575	1972336	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	25578 1003780	45410	125439	247116	498858	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 168426

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2015 14:43 Calibration End Date: 02/18/2015 16:35 Calibration ID: 26925

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methylnaphthalene	DCB	Lin	80276 3271177	172220	402063	859719	1634592	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164166

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2015 15:28 Calibration End Date: 01/14/2015 17:21 Calibration ID: 26233

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-164166/8	UXM06240.D
Level 2	STDA9 240-164166/7	UXM06239.D
Level 3	STDA9 240-164166/6	UXM06238.D
Level 4	STDA9 240-164166/5	UXM06237.D
Level 5	STDA9 240-164166/4	UXM06236.D
Level 6	STDA9 240-164166/3	UXM06235.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								
Acetonitrile	0.0308 0.0285	0.0261	0.0267	0.0264	0.0278	Ave		0.0277				6.3		15.0			
Isopropyl ether	0.2104 0.2132	0.1875	0.2013	0.1907	0.2093	Ave		0.2021				5.4		15.0			
2-Chloro-1,3-butadiene	0.6007 0.6152	0.5559	0.5546	0.5557	0.5945	Ave		0.5794				4.7		15.0			
Tert-butyl ethyl ether	0.8855 0.9526	0.8569	0.8558	0.8624	0.9047	Ave		0.8863				4.3		15.0			
Propionitrile	0.0250 0.0292	0.0250	0.0283	0.0281	0.0285	Ave		0.0274				6.8		15.0			
Ethyl acetate	0.0601 0.0541	0.0596	0.0595	0.0544	0.0523	Ave		0.0567				6.0		15.0			
Methacrylonitrile	0.1340 0.1586	0.1358	0.1492	0.1425	0.1482	Ave		0.1447				6.4		15.0			
Tert-amyl methyl ether	0.5685 0.6176	0.5474	0.5465	0.5754	0.5946	Ave		0.5750				4.8		15.0			
n-Butanol	0.0031 0.0037	0.0033	0.0035	0.0035	0.0036	Ave		0.0035				6.2		15.0			
Ethyl acrylate	0.2166 0.2197	0.2224	0.2128	0.2200	0.2193	Ave		0.2185				1.5		15.0			
Methyl methacrylate	0.1804 0.1909	0.1644	0.1876	0.1783	0.1808	Ave		0.1804				5.1		15.0			
2-Nitropropane	0.0531 0.0514	0.0491	0.0480	0.0455	0.0490	Ave		0.0493				5.3		15.0			
1-Chlorohexane	0.3443 0.3665	0.3221	0.3342	0.3334	0.3456	Ave		0.3410				4.4		15.0			
Cyclohexanone	0.0137 0.0124	0.0121	0.0129	0.0120	0.0120	Ave		0.0125				5.4		15.0			
1,2,3-Trimethylbenzene	2.0637 2.5030	2.1782	2.1367	2.1799	2.3953	Ave		2.2428				7.5		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164166

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2015 15:28 Calibration End Date: 01/14/2015 17:21 Calibration ID: 26233

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								
1,3,5-Trichlorobenzene	0.8888 0.8382	0.7834	0.7264	0.7760	0.8408	Ave		0.8090				7.2		15.0			
2-Methylnaphthalene	0.4887 0.7101	0.5552	0.5878	0.6723	0.7408	Lin1	-0.617	0.7222							0.9980		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164166

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2015 15:28 Calibration End Date: 01/14/2015 17:21 Calibration ID: 26233

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STDA9 240-164166/8	UXM06240.D
Level 2	STDA9 240-164166/7	UXM06239.D
Level 3	STDA9 240-164166/6	UXM06238.D
Level 4	STDA9 240-164166/5	UXM06237.D
Level 5	STDA9 240-164166/4	UXM06236.D
Level 6	STDA9 240-164166/3	UXM06235.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	55036 2170439	99914	275119	502321	1069720	10.0 400	20.0	50.0	100	200
Isopropyl ether	FB	Ave	37628 1625291	71760	207107	362673	804152	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	107407 4689591	212796	570551	1056938	2284183	1.00 40.0	2.00	5.00	10.0	20.0
Tert-butyl ethyl ether	FB	Ave	158346 7261625	327987	880519	1640088	3475992	1.00 40.0	2.00	5.00	10.0	20.0
Propionitrile	FB	Ave	44652 2229504	95821	291114	535101	1093800	10.0 400	20.0	50.0	100	200
Ethyl acetate	FB	Ave	21481 824997	45648	122347	207079	402165	2.00 80.0	4.00	10.0	20.0	40.0
Methacrylonitrile	FB	Ave	239655 12089184	519640	1535159	2710830	5694847	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	101649 4707921	209542	562268	1094346	2284706	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	FB	Ave	14032 701492	31330	91269	164603	350105	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	38733 1675163	85112	218906	418365	842774	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	64500 2910447	125874	386112	678247	1389556	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	18979 783434	37556	98847	173200	376587	2.00 80.0	4.00	10.0	20.0	40.0
1-Chlorohexane	CBZ	Ave	45197 1963963	88078	239479	447466	945912	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Ave	9867 371296	17201	48874	89060	176326	10.0 400	20.0	50.0	100	200
1,2,3-Trimethylbenzene	DCB	Ave	148599 7494932	310229	811828	1621112	3511920	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trichlorobenzene	DCB	Ave	63999 2510053	111575	276004	577096	1232749	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164166

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/14/2015 15:28 Calibration End Date: 01/14/2015 17:21 Calibration ID: 26233

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methylnaphthalene	DCB	Lin1	70376 4252659	158142	446643	999855	2172190	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164959

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/22/2015 07:59 Calibration End Date: 01/22/2015 09:52 Calibration ID: 26368

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-164959/7	UXM06318.D
Level 2	STD8260 240-164959/6	UXM06317.D
Level 3	STD8260 240-164959/5	UXM06316.D
Level 4	STD8260 240-164959/4	UXM06315.D
Level 5	STD8260 240-164959/3	UXM06314.D
Level 6	STD8260 240-164959/2	UXM06313.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	0.2705 0.2991	0.3220	0.3240	0.3271	0.3012	Ave		0.3073			0.1000	7.0		15.0			
Chloromethane	0.4695 0.4576	0.4401	0.4670	0.4596	0.4806	Ave		0.4624			0.1000	3.0		15.0			
Vinyl chloride	0.3511 0.3901	0.4025	0.3900	0.3945	0.4032	Ave		0.3886			0.1000	5.0		15.0			
Bromomethane	0.1391 0.1062	0.1159	0.1085	0.1188	0.1359	Ave		0.1207			0.0500	11.0		15.0			
Chloroethane	0.1788 0.1716	0.1775	0.1738	0.1821	0.2017	Ave		0.1809				6.0		15.0			
Dichlorofluoromethane	0.3297 0.2982	0.3261	0.3154	0.3105	0.3656	Ave		0.3242				7.2		15.0			
Trichlorofluoromethane	0.2436 0.2790	0.3229	0.3199	0.2870	0.3167	Ave		0.2948			0.1000	11.0		15.0			
Ethyl ether	0.2368 0.2364	0.2139	0.2168	0.2161	0.2376	Ave		0.2263				5.2		15.0			
Acrolein	0.0218 0.0197	0.0177	0.0188	0.0177	0.0197	Ave		0.0192				8.0		15.0			
1,1-Dichloroethene	0.2225 0.2209	0.2086	0.2144	0.2080	0.2246	Ave		0.2165			0.1000	3.3		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1725 0.1827	0.1993	0.1903	0.1817	0.1878	Ave		0.1857			0.0500	4.9		15.0			
Acetone	0.1406 0.0822	0.1122	0.0945	0.0815	0.0844	Lin1	0.1209	0.0803			0.0500				0.9990		0.9900
Iodomethane	0.3249 0.3453	0.3211	0.3337	0.3123	0.3568	Ave		0.3324				4.9		15.0			
Carbon disulfide	0.6253 0.6961	0.6745	0.6547	0.5995	0.6910	Ave		0.6569			0.1000	5.8		15.0			
3-Chloro-1-propene	0.1353 0.1469	0.1201	0.1284	0.1229	0.1452	Ave		0.1331				8.5		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164959

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/22/2015 07:59 Calibration End Date: 01/22/2015 09:52 Calibration ID: 26368

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								
Methyl acetate	0.1754 0.2021	0.1733	0.1796	0.1758	0.1945	Ave		0.1834			0.1000	6.5		15.0			
Methylene Chloride	0.2808 0.2412	0.2782	0.2428	0.2218	0.2475	Ave		0.2521			0.1000	9.1		15.0			
2-Methyl-2-propanol	0.0137 0.0143	0.0132	0.0134	0.0138	0.0154	Ave		0.0140				5.7		15.0			
Acrylonitrile	0.0814 0.0956	0.0801	0.0838	0.0840	0.0928	Ave		0.0863				7.4		15.0			
trans-1,2-Dichloroethene	0.2381 0.2557	0.2355	0.2426	0.2275	0.2593	Ave		0.2431			0.1000	5.0		15.0			
Methyl tert-butyl ether	0.5457 0.6139	0.5389	0.5559	0.5445	0.6166	Ave		0.5692			0.1000	6.3		15.0			
Hexane	0.0487 0.0564	0.0546	0.0606	0.0528	0.0522	Ave		0.0542				7.5		15.0			
1,1-Dichloroethane	0.4698 0.5386	0.4990	0.4878	0.4629	0.5362	Ave		0.4990			0.1000	6.5		15.0			
Vinyl acetate	0.2227 0.2798	0.2014	0.2138	0.2305	0.2625	Ave		0.2351				13.0		15.0			
cis-1,2-Dichloroethene	0.2357 0.2697	0.2527	0.2483	0.2358	0.2727	Ave		0.2525			0.1000	6.3		15.0			
2-Butanone (MEK)	0.1050 0.1085	0.0974	0.0954	0.0985	0.1056	Ave		0.1017			0.0500	5.2		15.0			
2,2-Dichloropropane	0.2762 0.3083	0.3003	0.2956	0.2626	0.3167	Ave		0.2933				6.9		15.0			
Chlorobromomethane	0.1193 0.1200	0.1094	0.1088	0.1065	0.1229	Ave		0.1145				6.1		15.0			
Tetrahydrofuran	0.0665 0.0657	0.0598	0.0589	0.0605	0.0636	Ave		0.0625				5.2		15.0			
Chloroform	0.4062 0.4411	0.4185	0.4104	0.3889	0.4371	Ave		0.4170				4.7		15.0			
1,1,1-Trichloroethane	0.3063 0.3710	0.3638	0.3571	0.3287	0.3782	Ave		0.3508			0.1000	7.9		15.0			
Cyclohexane	0.4451 0.5511	0.5542	0.5709	0.5236	0.5385	Ave		0.5306			0.1000	8.4		15.0			
1,1-Dichloropropene	0.2994 0.3245	0.3081	0.3167	0.2978	0.3217	Ave		0.3114				3.7		15.0			
Carbon tetrachloride	0.2732 0.3269	0.3031	0.3040	0.2794	0.3223	Ave		0.3015			0.1000	7.2		15.0			
Isobutyl alcohol	0.0059 0.0062	0.0057	0.0052	0.0054	0.0062	Ave		0.0058				7.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164959

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/22/2015 07:59 Calibration End Date: 01/22/2015 09:52 Calibration ID: 26368

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-Dichloroethane	0.3708 0.3988	0.3522	0.3546	0.3472	0.3884	Ave		0.3687			0.1000	5.7		15.0			
Benzene	0.9049 1.0452	0.9422	0.9159	0.8831	1.0191	Ave		0.9517			0.5000	6.9		15.0			
n-Heptane	0.5718	0.4246	0.2637	0.2229	0.1790	Lin1	0.4538	0.1643							0.9950		0.9900
Trichloroethene	0.2561 0.2677	0.2557	0.2554	0.2420	0.2688	Ave		0.2576			0.2000	3.8		15.0			
Methylcyclohexane	0.3008 0.3365	0.3604	0.3589	0.3488	0.3274	Ave		0.3388			0.1000	6.7		15.0			
1,2-Dichloropropane	0.2483 0.2927	0.2530	0.2476	0.2465	0.2890	Ave		0.2628			0.1000	8.3		15.0			
Dibromomethane	0.1205 0.1235	0.1114	0.1087	0.1117	0.1217	Ave		0.1163				5.5		15.0			
1,4-Dioxane	0.0013 0.0014	0.0014	0.0012	0.0013	0.0014	Ave		0.0013				4.9		15.0			
Dichlorobromomethane	0.2723 0.3341	0.2935	0.2810	0.2839	0.3216	Ave		0.2977			0.1000	8.3		15.0			
2-Chloroethyl vinyl ether	0.1041 0.1415	0.1032	0.1151	0.1206	0.1361	Ave		0.1201				13.0		15.0			
cis-1,3-Dichloropropene	0.2715 0.3690	0.2746	0.2903	0.2963	0.3523	Ave		0.3090			0.1500	13.0		15.0			
4-Methyl-2-pentanone (MIBK)	0.1836 0.2233	0.1951	0.1850	0.1962	0.2160	Ave		0.1999			0.0500	8.2		15.0			
Toluene	1.1446 1.5150	1.2758	1.2578	1.2923	1.4806	Ave		1.3277			0.4000	11.0		15.0			
trans-1,3-Dichloropropene	0.2859 0.4005	0.3055	0.3158	0.3330	0.3821	Ave		0.3371			0.1000	13.0		15.0			
Ethyl methacrylate	0.2272 0.2779	0.2225	0.2320	0.2522	0.2808	Ave		0.2488				10.0		15.0			
1,1,2-Trichloroethane	0.2095 0.2387	0.2295	0.2135	0.2265	0.2492	Ave		0.2278			0.1000	6.6		15.0			
1,3-Dichloropropane	0.4188 0.4429	0.4095	0.3947	0.3952	0.4431	Ave		0.4174				5.2		15.0			
Tetrachloroethene	0.2543 0.2867	0.2576	0.2527	0.2491	0.2866	Ave		0.2645			0.2000	6.6		15.0			
2-Hexanone	0.1838 0.2042	0.1662	0.1900	0.1917	0.2044	Ave		0.1901			0.0500	7.5		15.0			
Chlorodibromomethane	0.2066 0.2914	0.2136	0.2373	0.2490	0.2866	Ave		0.2474				14.0		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164959

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/22/2015 07:59 Calibration End Date: 01/22/2015 09:52 Calibration ID: 26368

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								
Ethylene Dibromide	0.2132 0.2419	0.2112	0.2183	0.2191	0.2419	Ave		0.2242				6.2		15.0			
Chlorobenzene	0.9000 0.9609	0.8608	0.8317	0.8395	0.9520	Ave		0.8908			0.3000	6.3		15.0			
1,1,1,2-Tetrachloroethane	0.2699 0.3262	0.2842	0.2973	0.2910	0.3289	Ave		0.2996				7.8		15.0			
Ethylbenzene	0.3867 0.5101	0.4509	0.4379	0.4353	0.5106	Ave		0.4552				11.0		15.0			
m-Xylene & p-Xylene	0.5229 0.6228	0.5189	0.5424	0.5418	0.6234	Ave		0.5620				8.6		15.0			
o-Xylene	0.4700 0.6156	0.5311	0.5311	0.5080	0.6131	Ave		0.5448				11.0		15.0			
Styrene	0.7541 1.0014	0.8262	0.7985	0.8414	0.9926	Ave		0.8690			0.3000	12.0		15.0			
Bromoform	0.1217 0.1649	0.1235	0.1301	0.1430	0.1637	Ave		0.1412			0.1000	14.0		15.0			
Isopropylbenzene	1.1989 1.5825	1.3506	1.3542	1.3175	1.5464	Ave		1.3917			0.1000	10.0		15.0			
1,1,2,2-Tetrachloroethane	0.4881 0.4794	0.4404	0.4524	0.4441	0.4870	Ave		0.4652			0.3000	4.7		15.0			
Bromobenzene	0.6736 0.6974	0.6413	0.6270	0.6192	0.6885	Ave		0.6578				5.0		15.0			
1,2,3-Trichloropropane	0.1775 0.1631	0.1642	0.1650	0.1503	0.1615	Ave		0.1636				5.3		15.0			
trans-1,4-Dichloro-2-butene	0.1372 0.1746	0.1537	0.1481	0.1467	0.1733	Ave		0.1556				9.8		15.0			
N-Propylbenzene	0.6062 0.7503	0.6568	0.6697	0.6566	0.7137	Ave		0.6756				7.4		15.0			
2-Chlorotoluene	0.5556 0.6325	0.6098	0.5852	0.5770	0.6263	Ave		0.5977				5.0		15.0			
1,3,5-Trimethylbenzene	1.7702 2.2541	1.8591	1.9140	1.8619	2.1516	Ave		1.9685				9.7		15.0			
4-Chlorotoluene	0.6152 0.6833	0.5982	0.6194	0.5913	0.6669	Ave		0.6290				6.0		15.0			
tert-Butylbenzene	1.5271 1.9284	1.6529	1.6510	1.6656	1.8839	Ave		1.7182				9.0		15.0			
1,2,4-Trimethylbenzene	1.8529 2.3812	2.0225	2.0417	1.9803	2.2708	Ave		2.0916				9.4		15.0			
sec-Butylbenzene	2.1401 2.5109	2.2279	2.1351	2.1678	2.3893	Ave		2.2618				6.8		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164959

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/22/2015 07:59 Calibration End Date: 01/22/2015 09:52 Calibration ID: 26368

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								
1,3-Dichlorobenzene	1.1848 1.3468	1.2455	1.2097	1.2156	1.3364	Ave		1.2565			0.6000	5.5		15.0			
4-Isopropyltoluene	1.9679 2.3719	2.0119	1.9805	1.9772	2.2630	Ave		2.0954				8.4		15.0			
1,4-Dichlorobenzene	1.3283 1.3848	1.3123	1.2321	1.2077	1.3583	Ave		1.3039			0.5000	5.4		15.0			
n-Butylbenzene	1.4866 1.7705	1.5937	1.5362	1.5146	1.7305	Ave		1.6053				7.4		15.0			
1,2-Dichlorobenzene	1.1017 1.2498	1.1853	1.1627	1.1138	1.2613	Ave		1.1791			0.4000	5.7		15.0			
1,2-Dibromo-3-Chloropropane	0.0811 0.0839	0.0669	0.0698	0.0744	0.0820	Ave		0.0763			0.0500	9.2		15.0			
1,2,4-Trichlorobenzene	0.6317 0.6441	0.6584	0.6118	0.6159	0.6721	Ave		0.6390			0.2000	3.7		15.0			
Hexachlorobutadiene	0.3368 0.2641	0.3327	0.2951	0.2904	0.2944	Ave		0.3023				9.2		15.0			
Naphthalene	1.1858 1.4221	1.2466	1.2127	1.2953	1.4481	Ave		1.3018				8.4		15.0			
1,2,3-Trichlorobenzene	0.5298 0.5420	0.5343	0.5487	0.5429	0.5865	Ave		0.5474				3.7		15.0			
Dibromofluoromethane (Surr)	0.2079 0.2303	0.1918	0.2045	0.1991	0.2205	Ave		0.2090				6.8		15.0			
1,2-Dichloroethane-d4 (Surr)	0.2635 0.2865	0.2574	0.2643	0.2521	0.2791	Ave		0.2672				4.9		15.0			
Toluene-d8 (Surr)	1.0285 1.2939	1.0746	1.1261	1.0802	1.2388	Ave		1.1403				9.1		15.0			
4-Bromofluorobenzene (Surr)	0.3802 0.4488	0.3922	0.4119	0.4055	0.4494	Ave		0.4147				7.0		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164959

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/22/2015 07:59 Calibration End Date: 01/22/2015 09:52 Calibration ID: 26368

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-164959/7	UXM06318.D
Level 2	STD8260 240-164959/6	UXM06317.D
Level 3	STD8260 240-164959/5	UXM06316.D
Level 4	STD8260 240-164959/4	UXM06315.D
Level 5	STD8260 240-164959/3	UXM06314.D
Level 6	STD8260 240-164959/2	UXM06313.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	50470 2492070	122712	314789	667791	1215572	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	87584 3812766	167701	453732	938196	1939731	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	65501 3250331	153380	378964	805201	1627205	1.00 40.0	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	25948 885228	44159	105396	242582	548612	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	33349 1430125	67645	168889	371753	813919	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	61504 2484412	124243	306455	633909	1475702	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	45436 2324422	123026	310821	585819	1278208	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	44180 1970032	81507	210637	441215	959044	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Ave	20372 822124	33794	91273	180914	396646	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	41507 1840852	79485	208333	424544	906312	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	32181 1522398	75938	184894	370913	758107	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Lin1	52448 1370117	85543	183555	332626	681231	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	60614 2877488	122364	324217	637506	1439988	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	116649 5800295	257028	636144	1223830	2789032	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	25232 1223947	45775	124722	250903	585983	1.00 40.0	2.00	5.00	10.0	20.0
Methyl acetate	FB	Ave	163634 8421542	330086	872425	1794246	3924859	5.00 200	10.0	25.0	50.0	100

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164959

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/22/2015 07:59 Calibration End Date: 01/22/2015 09:52 Calibration ID: 26368

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methylene Chloride	FB	Ave	52391 2009449	106000	235955	452728	999060	1.00 40.0	2.00	5.00	10.0	20.0
2-Methyl-2-propanol	FB	Ave	25508 1192899	50451	130060	282181	622326	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	151826 7966886	305113	813829	1714777	3743873	10.0 400	20.0	50.0	100	200
trans-1,2-Dichloroethene	FB	Ave	44414 2130513	89722	235723	464312	1046523	1.00 40.0	2.00	5.00	10.0	20.0
Methyl tert-butyl ether	FB	Ave	101794 5115158	205337	540185	1111440	2488728	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	9076 469559	20798	58904	107808	210493	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	87641 4487991	190135	473969	944958	2164081	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	39882 2238227	73682	199445	451629	1016896	0.960 38.4	1.92	4.80	9.60	19.2
cis-1,2-Dichloroethene	FB	Ave	43969 2247337	96296	241290	481399	1100667	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	39167 1808310	74201	185487	402316	852306	2.00 80.0	4.00	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	51525 2568686	114426	287180	536041	1278102	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobromomethane	FB	Ave	22265 999564	41678	105747	217422	496097	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	24820 1095625	45553	114559	247103	513548	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	75773 3675414	159478	398763	793807	1764040	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	57146 3091216	138630	346935	670927	1526212	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	83031 4591815	211182	554701	1068808	2173298	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	55863 2704313	117392	307718	607863	1298482	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	50967 2723619	115508	295393	570229	1300673	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	FB	Ave	27454 1288071	54382	126793	277630	629389	25.0 1000	50.0	125	250	500
1,2-Dichloroethane	FB	Ave	69179 3322970	134217	344600	708748	1567502	1.00 40.0	2.00	5.00	10.0	20.0
Benzene	FB	Ave	168817 8709422	359029	889990	1802588	4112854	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164959

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/22/2015 07:59 Calibration End Date: 01/22/2015 09:52 Calibration ID: 26368

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Heptane	FB	Lin1	106670	161806	256212	454944	722536	1.00	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	47775 2230996	97422	248156	493943	1084854	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	56117 2803678	137342	348762	712049	1321283	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	46318 2439300	96400	240560	503154	1166270	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	22485 1028697	42455	105662	227975	491372	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Ave	4778 227463	10726	24241	54537	113193	20.0 800	40.0	100	200	400
Dichlorobromomethane	FB	Ave	50803 2783572	111834	273055	579599	1298113	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	38825 2358795	78619	223650	492334	1098392	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	50653 3074704	104636	282057	604771	1421968	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	68486 3720747	148696	359607	800983	1743922	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	159815 9436252	359249	882535	1926857	4351653	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	39921 2494575	86024	221556	496461	1123008	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	31725 1730890	62650	162760	376018	825341	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	29246 1486926	64636	149834	337792	732531	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	58482 2758271	115306	276930	589191	1302285	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	35513 1785955	72532	177291	371380	842330	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	51319 2543983	93624	266649	571728	1201507	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Ave	28850 1815053	60157	166492	371287	842407	1.00 40.0	2.00	5.00	10.0	20.0
Ethylene Dibromide	CBZ	Ave	29771 1506406	59458	153163	326656	710857	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	125670 5984972	242399	583542	1251676	2797998	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	37688 2031849	80035	208583	433971	966729	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164959

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/22/2015 07:59 Calibration End Date: 01/22/2015 09:52 Calibration ID: 26368

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethylbenzene	CBZ	Ave	53990 3177050	126969	307224	649084	1500668	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	73013 3878873	146111	380555	807867	1832249	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	65631 3834469	149557	372635	757397	1801970	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	105296 6237034	232642	560227	1254628	2917404	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Ave	16989 1027338	34788	91251	213246	481172	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	167403 9856467	380302	950145	1964537	4545099	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	36921 1680429	68093	182436	370585	841384	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	50954 2444832	99152	252861	516719	1189328	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	13425 571883	25382	66542	125403	279038	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Ave	10380 612234	23758	59727	122427	299379	1.00 40.0	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	45855 2630264	101552	270110	547932	1232917	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	42030 2217341	94283	236000	481495	1081886	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	133900 7901601	287457	771939	1553682	3716889	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	46539 2395407	92492	249799	493416	1152017	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	115516 6759887	255572	665876	1389921	3254557	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	140158 8347392	312717	823451	1652510	3922844	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	161880 8802126	344482	861104	1808944	4127611	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	89623 4721289	192589	487877	1014413	2308621	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	148859 8314844	311088	798734	1649915	3909320	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	100479 4854582	202913	496920	1007794	2346516	1.00 40.0	2.00	5.00	10.0	20.0
n-Butylbenzene	DCB	Ave	112454 6206613	246418	619546	1263865	2989450	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48741-1 Analy Batch No.: 164959

SDG No.:

Instrument ID: A3UX16 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/22/2015 07:59 Calibration End Date: 01/22/2015 09:52 Calibration ID: 26368

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichlorobenzene	DCB	Ave	83339 4381200	183269	468944	929422	2178958	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	6137 293990	10348	28145	62059	141667	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	47786 2257972	101796	246753	513931	1161009	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	25473 925840	51447	119035	242358	508554	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	89700 4985081	192748	489093	1080909	2501617	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	40076 1899908	82619	221279	453071	1013216	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	38787 1919190	73069	198697	406439	890046	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	49160 2387064	98080	256780	514659	1126599	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	143608 8058701	302579	790090	1610702	3640940	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	53094 2795548	110429	289002	604574	1320857	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: ICV 240-168426/14 Calibration Date: 02/18/2015 14:20

Instrument ID: A3UX11 Calib Start Date: 02/18/2015 12:05

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/18/2015 13:58

Lab File ID: UXJ4380.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	0.2505	0.2445	0.1000	0.00976	0.0100	-2.4	20.0
Chloromethane	Ave	0.3011	0.2975	0.1000	0.00988	0.0100	-1.2	20.0
Vinyl chloride	Ave	0.2800	0.2752	0.1000	0.00983	0.0100	-1.7	20.0
Bromomethane	Ave	0.1542	0.1495	0.0500	0.00970	0.0100	-3.0	20.0
Chloroethane	Ave	0.1625	0.1585	0.0500	0.00975	0.0100	-2.5	20.0
Dichlorofluoromethane	Ave	0.3866	0.3798		0.00983	0.0100	-1.7	20.0
Trichlorofluoromethane	Ave	0.3248	0.3207	0.1000	0.00987	0.0100	-1.3	20.0
Ethyl ether	Ave	0.2994	0.3358		0.0112	0.0100	12.1	20.0
Acrolein	Lin1		0.0252		0.104	0.0500	107.5*	20.0
1,1-Dichloroethene	Ave	0.2956	0.2955	0.1000	0.0100	0.0100	-0.0	20.0
1,1,2-Trichlorotrifluoroethane	Ave	0.1496	0.1604	0.0500	0.0107	0.0100	7.2	20.0
Acetone	Ave	0.0851	0.0858	0.0500	0.0202	0.0200	0.8	20.0
Iodomethane	Ave	0.3337	0.3375		0.0101	0.0100	1.1	20.0
Carbon disulfide	Ave	0.7772	0.7897	0.1000	0.0102	0.0100	1.6	20.0
3-Chloro-1-propene	Ave	0.2690	0.2957		0.0110	0.0100	9.9	20.0
Methyl acetate	Ave	0.1930	0.2010	0.1000	0.0521	0.0500	4.2	20.0
Methylene Chloride	Ave	0.3385	0.3416	0.1000	0.0101	0.0100	0.9	20.0
tert-Butyl alcohol	Ave	0.0176	0.0181		0.103	0.100	2.5	20.0
Acrylonitrile	Ave	0.0958	0.0994		0.104	0.100	3.7	20.0
Methyl tert-butyl ether	Ave	1.019	1.091	0.1000	0.0107	0.0100	7.1	20.0
trans-1,2-Dichloroethene	Ave	0.3895	0.4178	0.1000	0.0107	0.0100	7.3	20.0
Hexane	Ave	0.1053	0.1124		0.0107	0.0100	6.7	20.0
1,1-Dichloroethane	Ave	0.6592	0.7254	0.1000	0.0110	0.0100	10.0	20.0
Vinyl acetate	Ave	0.2958	0.3220		0.0109	0.0100	8.9	20.0
2,2-Dichloropropane	Ave	0.3717	0.3827		0.0103	0.0100	3.0	20.0
2-Butanone (MEK)	Ave	0.1052	0.1098	0.0500	0.0209	0.0200	4.4	20.0
cis-1,2-Dichloroethene	Ave	0.4075	0.4467	0.1000	0.0110	0.0100	9.6	20.0
Bromochloromethane	Ave	0.1716	0.1852		0.0108	0.0100	7.9	20.0
Tetrahydrofuran	Lin1		0.0727		0.0226	0.0200	12.8	20.0
Chloroform	Ave	0.6021	0.6372	0.2000	0.0106	0.0100	5.8	20.0
1,1,1-Trichloroethane	Ave	0.4619	0.4851	0.1000	0.0105	0.0100	5.0	20.0
Cyclohexane	Ave	0.5644	0.5828	0.1000	0.0103	0.0100	3.3	20.0
1,1-Dichloropropene	Ave	0.4852	0.5241		0.0108	0.0100	8.0	20.0
Carbon tetrachloride	Ave	0.3861	0.3983	0.1000	0.0103	0.0100	3.2	20.0
Isobutyl alcohol	Ave	0.0076	0.0077		0.253	0.250	1.4	20.0
1,2-Dichloroethane	Ave	0.4248	0.4623	0.1000	0.0109	0.0100	8.8	20.0
Benzene	Ave	1.579	1.709	0.5000	0.0108	0.0100	8.2	20.0
n-Heptane	Ave	0.0955	0.0970		0.0102	0.0100	1.5	20.0
Trichloroethene	Ave	0.3666	0.3884	0.2000	0.0106	0.0100	5.9	20.0
Methylcyclohexane	Ave	0.5920	0.6096	0.1000	0.0103	0.0100	3.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: ICV 240-168426/14 Calibration Date: 02/18/2015 14:20

Instrument ID: A3UX11 Calib Start Date: 02/18/2015 12:05

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/18/2015 13:58

Lab File ID: UXJ4380.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-Dichloropropane	Ave	0.3783	0.4123	0.1000	0.0109	0.0100	9.0	20.0
Dibromomethane	Ave	0.1850	0.1963		0.0106	0.0100	6.1	20.0
1,4-Dioxane	Lin1		0.0017		0.161	0.200	-19.6	20.0
Bromodichloromethane	Ave	0.4588	0.5034	0.1000	0.0110	0.0100	9.7	20.0
2-Chloroethyl vinyl ether	Ave	0.3577	0.3877		0.0130	0.0120	8.4	20.0
cis-1,3-Dichloropropene	Ave	0.5858	0.6345	0.1500	0.0108	0.0100	8.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2342	0.2450	0.0500	0.0209	0.0200	4.6	20.0
Toluene	Ave	2.274	2.501	0.4000	0.0110	0.0100	10.0	20.0
trans-1,3-Dichloropropene	Ave	0.6604	0.7355	0.1000	0.0111	0.0100	11.4	20.0
Ethyl methacrylate	Ave	0.5381	0.5841		0.0109	0.0100	8.6	20.0
1,1,2-Trichloroethane	Ave	0.3986	0.4313	0.1000	0.0108	0.0100	8.2	20.0
Tetrachloroethene	Ave	0.3606	0.3931	0.2000	0.0109	0.0100	9.0	20.0
1,3-Dichloropropane	Ave	0.7379	0.7918		0.0107	0.0100	7.3	20.0
2-Hexanone	Ave	0.2125	0.2351	0.0500	0.0221	0.0200	10.6	20.0
Chlorodibromomethane	Ave	0.4011	0.4395		0.0110	0.0100	9.6	20.0
1,2-Dibromoethane	Ave	0.3702	0.3981		0.0108	0.0100	7.5	20.0
Chlorobenzene	Ave	1.311	1.434	0.3000	0.0109	0.0100	9.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4080	0.4495		0.0110	0.0100	10.2	20.0
Ethylbenzene	Ave	0.7283	0.8198		0.0113	0.0100	12.6	20.0
m-Xylene & p-Xylene	Ave	0.9008	0.9942		0.0110	0.0100	10.4	20.0
o-Xylene	Ave	0.8525	0.9458		0.0111	0.0100	11.0	20.0
Styrene	Ave	1.377	1.513	0.3000	0.0110	0.0100	9.8	20.0
Bromoform	Ave	0.1948	0.2126	0.1000	0.0109	0.0100	9.1	20.0
Isopropylbenzene	Ave	2.074	2.287	0.1000	0.0110	0.0100	10.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.044	1.149	0.3000	0.0110	0.0100	10.1	20.0
Bromobenzene	Ave	1.199	1.319		0.0110	0.0100	10.0	20.0
1,2,3-Trichloropropane	Ave	0.3295	0.3489		0.0106	0.0100	5.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2410	0.2680		0.0111	0.0100	11.2	20.0
N-Propylbenzene	Ave	1.443	1.580		0.0109	0.0100	9.5	20.0
2-Chlorotoluene	Ave	1.185	1.305		0.0110	0.0100	10.1	20.0
1,3,5-Trimethylbenzene	Ave	4.121	4.481		0.0109	0.0100	8.7	20.0
4-Chlorotoluene	Ave	1.201	1.317		0.0110	0.0100	9.6	20.0
tert-Butylbenzene	Ave	3.386	3.676		0.0109	0.0100	8.6	20.0
1,2,4-Trimethylbenzene	Ave	4.123	4.525		0.0110	0.0100	9.7	20.0
sec-Butylbenzene	Ave	4.584	4.986		0.0109	0.0100	8.8	20.0
1,3-Dichlorobenzene	Ave	1.968	2.121	0.6000	0.0108	0.0100	7.8	20.0
4-Isopropyltoluene	Ave	3.738	4.074		0.0109	0.0100	9.0	20.0
1,4-Dichlorobenzene	Ave	1.956	2.145	0.5000	0.0110	0.0100	9.6	20.0
n-Butylbenzene	Ave	3.004	3.230		0.0108	0.0100	7.5	20.0
1,2-Dichlorobenzene	Ave	1.758	1.935	0.4000	0.0110	0.0100	10.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1414	0.1515	0.0500	0.0107	0.0100	7.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: ICV 240-168426/14 Calibration Date: 02/18/2015 14:20

Instrument ID: A3UX11 Calib Start Date: 02/18/2015 12:05

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/18/2015 13:58

Lab File ID: UXJ4380.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
1,2,4-Trichlorobenzene	Ave	0.9700	1.074	0.2000	0.0111	0.0100	10.8	20.0
Hexachlorobutadiene	Ave	0.3116	0.3254		0.0104	0.0100	4.4	20.0
Naphthalene	Ave	2.717	3.013		0.0111	0.0100	10.9	20.0
1,2,3-Trichlorobenzene	Ave	0.8904	0.9776		0.0110	0.0100	9.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: ICV 240-168426/15 Calibration Date: 02/18/2015 16:58

Instrument ID: A3UX11 Calib Start Date: 02/18/2015 14:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/18/2015 16:35

Lab File ID: UXJ4387.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
Acetonitrile	Ave	0.0253	0.0224		0.0887	0.100	-11.3	20.0
Diisopropyl ether	Ave	0.3688	0.3713		0.0101	0.0100	0.7	20.0
2-Chloro-1,3-butadiene	Ave	0.5610	0.5686		0.0101	0.0100	1.4	20.0
Ethyl tert-butyl ether	Ave	1.148	1.124		0.00979	0.0100	-2.1	20.0
Ethyl acetate	Ave	0.0734	0.1258		0.0343	0.0200	71.3*	20.0
Propionitrile	Ave	0.0319	0.0311		0.0975	0.100	-2.5	20.0
Methacrylonitrile	Ave	0.1675	0.1668		0.0996	0.100	-0.4	20.0
Tert-amyl methyl ether	Ave	1.080	1.072		0.00993	0.0100	-0.7	20.0
n-Butanol	Ave	0.0078	0.0069		0.222	0.250	-11.3	20.0
Ethyl acrylate	Ave	0.3728	0.3709		0.00995	0.0100	-0.5	20.0
Methyl methacrylate	Ave	0.2585	0.2527		0.0196	0.0200	-2.2	20.0
2-Nitropropane	Ave	0.0651	0.0653		0.0200	0.0200	0.2	20.0
1-Chlorohexane	Ave	0.6571	0.6449		0.00981	0.0100	-1.9	20.0
Cyclohexanone	Lin1		0.0222		0.0936	0.100	-6.4	20.0
1,2,3-Trimethylbenzene	Ave	4.035	3.848		0.00954	0.0100	-4.6	20.0
1,3,5-Trichlorobenzene	Ave	1.027	0.9446		0.00920	0.0100	-8.0	20.0
2-Methylnaphthalene	Lin		1.549		0.0184	0.0200	-8.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: CCVIS 240-174260/2 Calibration Date: 03/30/2015 10:29

Instrument ID: A3UX11 Calib Start Date: 02/18/2015 12:05

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/18/2015 13:58

Lab File ID: UXJ5185.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	0.2505	0.2023	0.1000	0.00808	0.0100	-19.2	20.0
Chloromethane	Ave	0.3011	0.2682	0.1000	0.00891	0.0100	-10.9	20.0
Vinyl chloride	Ave	0.2800	0.2528	0.1000	0.00903	0.0100	-9.7	20.0
Bromomethane	Ave	0.1542	0.1437	0.0500	0.00932	0.0100	-6.8	20.0
Chloroethane	Ave	0.1625	0.1515	0.0500	0.00932	0.0100	-6.8	20.0
Dichlorofluoromethane	Ave	0.3866	0.3721		0.00963	0.0100	-3.7	20.0
Trichlorofluoromethane	Ave	0.3248	0.2978	0.1000	0.00917	0.0100	-8.3	20.0
Ethyl ether	Ave	0.2994	0.2621		0.00875	0.0100	-12.5	20.0
Acrolein	Lin1		0.0172		0.0707	0.0500	41.5*	20.0
1,1-Dichloroethene	Ave	0.2956	0.2612	0.1000	0.00884	0.0100	-11.6	20.0
1,1,2-Trichlorotrifluoroetha ne	Ave	0.1496	0.1273	0.0500	0.00851	0.0100	-14.9	20.0
Acetone	Ave	0.0851	0.0645	0.0500	0.0152	0.0200	-24.2*	20.0
Iodomethane	Ave	0.3337	0.3483		0.0104	0.0100	4.4	20.0
Carbon disulfide	Ave	0.7772	0.7196	0.1000	0.00926	0.0100	-7.4	20.0
3-Chloro-1-propene	Ave	0.2690	0.2462		0.00915	0.0100	-8.5	20.0
Methyl acetate	Ave	0.1930	0.1676	0.1000	0.0434	0.0500	-13.2	20.0
Methylene Chloride	Ave	0.3385	0.3267	0.1000	0.00965	0.0100	-3.5	20.0
tert-Butyl alcohol	Ave	0.0176	0.0132		0.0748	0.100	-25.2*	20.0
Acrylonitrile	Ave	0.0958	0.0811		0.0847	0.100	-15.3	20.0
Methyl tert-butyl ether	Ave	1.019	0.8852	0.1000	0.00869	0.0100	-13.1	20.0
trans-1,2-Dichloroethene	Ave	0.3895	0.3610	0.1000	0.00927	0.0100	-7.3	20.0
Hexane	Ave	0.1053	0.0796		0.00756	0.0100	-24.4*	20.0
1,1-Dichloroethane	Ave	0.6592	0.6288	0.1000	0.00954	0.0100	-4.6	20.0
Vinyl acetate	Ave	0.2958	0.2277		0.00739	0.00960	-23.0*	20.0
2,2-Dichloropropane	Ave	0.3717	0.3276		0.00881	0.0100	-11.9	20.0
2-Butanone (MEK)	Ave	0.1052	0.0903	0.0500	0.0172	0.0200	-14.1	20.0
cis-1,2-Dichloroethene	Ave	0.4075	0.3858	0.1000	0.00947	0.0100	-5.3	20.0
Bromochloromethane	Ave	0.1716	0.1773		0.0103	0.0100	3.3	20.0
Tetrahydrofuran	Lin1		0.0569		0.0173	0.0200	-13.6	20.0
Chloroform	Ave	0.6021	0.6136	0.2000	0.0102	0.0100	1.9	20.0
1,1,1-Trichloroethane	Ave	0.4619	0.4292	0.1000	0.00929	0.0100	-7.1	20.0
Cyclohexane	Ave	0.5644	0.4254	0.1000	0.00754	0.0100	-24.6*	20.0
1,1-Dichloropropene	Ave	0.4852	0.4362		0.00899	0.0100	-10.1	20.0
Carbon tetrachloride	Ave	0.3861	0.3522	0.1000	0.00912	0.0100	-8.8	20.0
Isobutyl alcohol	Ave	0.0076	0.0072		0.237	0.250	-5.3	20.0
Benzene	Ave	1.579	1.463	0.5000	0.00927	0.0100	-7.3	20.0
1,2-Dichloroethane	Ave	0.4248	0.4489	0.1000	0.0106	0.0100	5.7	20.0
n-Heptane	Ave	0.0955	0.0781		0.00817	0.0100	-18.3	20.0
Trichloroethene	Ave	0.3666	0.3580	0.2000	0.00977	0.0100	-2.3	20.0
Methylcyclohexane	Ave	0.5920	0.4529	0.1000	0.00765	0.0100	-23.5*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: CCVIS 240-174260/2 Calibration Date: 03/30/2015 10:29

Instrument ID: A3UX11 Calib Start Date: 02/18/2015 12:05

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/18/2015 13:58

Lab File ID: UXJ5185.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-Dichloropropane	Ave	0.3783	0.3412	0.1000	0.00902	0.0100	-9.8	20.0
Dibromomethane	Ave	0.1850	0.1795		0.00971	0.0100	-2.9	20.0
1,4-Dioxane	Lin1		0.0012		0.114	0.200	-43.1*	20.0
Bromodichloromethane	Ave	0.4588	0.4404	0.1000	0.00960	0.0100	-4.0	20.0
2-Chloroethyl vinyl ether	Ave	0.3577	0.1771		0.00990	0.0200	-50.5*	20.0
cis-1,3-Dichloropropene	Ave	0.5858	0.5148	0.1500	0.00879	0.0100	-12.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2342	0.1861	0.0500	0.0159	0.0200	-20.5*	20.0
Toluene	Ave	2.274	2.462	0.4000	0.0108	0.0100	8.3	20.0
trans-1,3-Dichloropropene	Ave	0.6604	0.6798	0.1000	0.0103	0.0100	2.9	20.0
Ethyl methacrylate	Ave	0.5381	0.4817		0.00895	0.0100	-10.5	20.0
1,1,2-Trichloroethane	Ave	0.3986	0.4161	0.1000	0.0104	0.0100	4.4	20.0
Tetrachloroethene	Ave	0.3606	0.3819	0.2000	0.0106	0.0100	5.9	20.0
1,3-Dichloropropane	Ave	0.7379	0.7805		0.0106	0.0100	5.8	20.0
2-Hexanone	Ave	0.2125	0.1941	0.0500	0.0183	0.0200	-8.7	20.0
Chlorodibromomethane	Ave	0.4011	0.4400		0.0110	0.0100	9.7	20.0
1,2-Dibromoethane	Ave	0.3702	0.3819		0.0103	0.0100	3.2	20.0
Chlorobenzene	Ave	1.311	1.352	0.3000	0.0103	0.0100	3.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4080	0.4289		0.0105	0.0100	5.1	20.0
Ethylbenzene	Ave	0.7283	0.7538		0.0103	0.0100	3.5	20.0
m-Xylene & p-Xylene	Ave	0.9008	0.8838		0.00981	0.0100	-1.9	20.0
o-Xylene	Ave	0.8525	0.7980		0.00936	0.0100	-6.4	20.0
Styrene	Ave	1.377	1.293	0.3000	0.00939	0.0100	-6.1	20.0
Bromoform	Ave	0.1948	0.1659	0.1000	0.00851	0.0100	-14.9	20.0
Isopropylbenzene	Ave	2.074	1.912	0.1000	0.00922	0.0100	-7.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.044	0.995	0.3000	0.00953	0.0100	-4.7	20.0
Bromobenzene	Ave	1.199	1.218		0.0102	0.0100	1.5	20.0
1,2,3-Trichloropropane	Ave	0.3295	0.3347		0.0102	0.0100	1.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2410	0.2859		0.0119	0.0100	18.6	20.0
N-Propylbenzene	Ave	1.443	1.477		0.0102	0.0100	2.3	20.0
2-Chlorotoluene	Ave	1.185	1.206		0.0102	0.0100	1.7	20.0
1,3,5-Trimethylbenzene	Ave	4.121	3.951		0.00959	0.0100	-4.1	20.0
4-Chlorotoluene	Ave	1.201	1.203		0.0100	0.0100	0.2	20.0
tert-Butylbenzene	Ave	3.386	3.230		0.00954	0.0100	-4.6	20.0
1,2,4-Trimethylbenzene	Ave	4.123	3.964		0.00961	0.0100	-3.9	20.0
sec-Butylbenzene	Ave	4.584	4.427		0.00966	0.0100	-3.4	20.0
1,3-Dichlorobenzene	Ave	1.968	2.020	0.6000	0.0103	0.0100	2.6	20.0
4-Isopropyltoluene	Ave	3.738	3.699		0.00989	0.0100	-1.1	20.0
1,4-Dichlorobenzene	Ave	1.956	2.060	0.5000	0.0105	0.0100	5.3	20.0
n-Butylbenzene	Ave	3.004	3.030		0.0101	0.0100	0.9	20.0
1,2-Dichlorobenzene	Ave	1.758	1.933	0.4000	0.0110	0.0100	10.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1414	0.1561	0.0500	0.0110	0.0100	10.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: CCVIS 240-174260/2 Calibration Date: 03/30/2015 10:29

Instrument ID: A3UX11 Calib Start Date: 02/18/2015 12:05

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/18/2015 13:58

Lab File ID: UXJ5185.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
1,2,4-Trichlorobenzene	Ave	0.9700	1.082	0.2000	0.0112	0.0100	11.5	20.0
Hexachlorobutadiene	Ave	0.3116	0.3412		0.0110	0.0100	9.5	20.0
Naphthalene	Ave	2.717	2.678		0.00986	0.0100	-1.4	20.0
1,2,3-Trichlorobenzene	Ave	0.8904	0.9353		0.0105	0.0100	5.0	20.0
Dibromofluoromethane (Surr)	Ave	0.2939	0.3007		0.00760	0.00743	2.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3559	0.3489		0.00728	0.00743	-2.0	20.0
Toluene-d8 (Surr)	Ave	1.870	2.016		0.00801	0.00743	7.8	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5587	0.4901		0.00651	0.00743	-12.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: CCV 240-174260/3 Calibration Date: 03/30/2015 11:14

Instrument ID: A3UX11 Calib Start Date: 02/18/2015 14:43

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/18/2015 16:35

Lab File ID: UXJ5187.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
Acetonitrile	Ave	0.0253	0.0164		0.0648	0.100	-35.2*	20.0
Diisopropyl ether	Ave	0.3688	0.3294		0.00893	0.0100	-10.7	20.0
2-Chloro-1,3-butadiene	Ave	0.5610	0.5274		0.00940	0.0100	-6.0	20.0
Ethyl tert-butyl ether	Ave	1.148	0.9545		0.00831	0.0100	-16.9	20.0
Ethyl acetate	Ave	0.0734	0.0496		0.0135	0.0200	-32.5*	20.0
Propionitrile	Ave	0.0319	0.0256		0.0801	0.100	-19.9	20.0
Methacrylonitrile	Ave	0.1675	0.1442		0.0861	0.100	-13.9	20.0
Tert-amyl methyl ether	Ave	1.080	0.8694		0.00805	0.0100	-19.5	20.0
n-Butanol	Ave	0.0078	0.0044		0.141	0.250	-43.7*	20.0
Ethyl acrylate	Ave	0.3728	0.2853		0.00765	0.0100	-23.5*	20.0
Methyl methacrylate	Ave	0.2585	0.2141		0.0166	0.0200	-17.2	20.0
2-Nitropropane	Ave	0.0651	0.0519		0.0159	0.0200	-20.3*	20.0
1-Chlorohexane	Ave	0.6571	0.5799		0.00883	0.0100	-11.7	20.0
Cyclohexanone	Lin1		0.0154		0.0622	0.100	-37.8*	20.0
1,2,3-Trimethylbenzene	Ave	4.035	3.793		0.00940	0.0100	-6.0	20.0
1,3,5-Trichlorobenzene	Ave	1.027	1.181		0.0115	0.0100	14.9	20.0
2-Methylnaphthalene	Lin		1.181		0.0138	0.0200	-31.0*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: ICV 240-164959/8 Calibration Date: 01/22/2015 10:17

Instrument ID: A3UX16 Calib Start Date: 01/22/2015 07:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/22/2015 09:52

Lab File ID: UXM06319.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	0.3073	0.2668	0.1000	0.00868	0.0100	-13.2	20.0
Chloromethane	Ave	0.4624	0.3787	0.1000	0.00819	0.0100	-18.1	20.0
Vinyl chloride	Ave	0.3886	0.3407	0.1000	0.00877	0.0100	-12.3	20.0
Bromomethane	Ave	0.1207	0.0981	0.0500	0.00812	0.0100	-18.8	20.0
Chloroethane	Ave	0.1809	0.1572	0.0500	0.00869	0.0100	-13.1	20.0
Dichlorofluoromethane	Ave	0.3242	0.2707		0.00835	0.0100	-16.5	20.0
Trichlorofluoromethane	Ave	0.2948	0.2767	0.1000	0.00939	0.0100	-6.1	20.0
Ethyl ether	Ave	0.2263	0.2266		0.0100	0.0100	0.1	20.0
Acrolein	Ave	0.0192	0.0194		0.0503	0.0500	0.5	20.0
1,1-Dichloroethene	Ave	0.2165	0.2325	0.1000	0.0107	0.0100	7.4	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.1857	0.2076	0.0500	0.0112	0.0100	11.8	20.0
Acetone	Lin1		0.0786	0.0500	0.0181	0.0200	-9.7	20.0
Iodomethane	Ave	0.3324	0.3753		0.0113	0.0100	12.9	20.0
Carbon disulfide	Ave	0.6569	0.7137	0.1000	0.0109	0.0100	8.7	20.0
3-Chloro-1-propene	Ave	0.1331	0.1359		0.0102	0.0100	2.1	20.0
Methyl acetate	Ave	0.1834	0.1788	0.1000	0.0487	0.0500	-2.5	20.0
Methylene Chloride	Ave	0.2521	0.2508	0.1000	0.00995	0.0100	-0.5	20.0
2-Methyl-2-propanol	Ave	0.0140	0.0133		0.0948	0.100	-5.2	20.0
Acrylonitrile	Ave	0.0863	0.0876		0.102	0.100	1.5	20.0
Methyl tert-butyl ether	Ave	0.5692	0.5786	0.1000	0.0102	0.0100	1.6	20.0
trans-1,2-Dichloroethene	Ave	0.2431	0.2624	0.1000	0.0108	0.0100	8.0	20.0
Hexane	Ave	0.0542	0.0674		0.0124	0.0100	24.3*	20.0
1,1-Dichloroethane	Ave	0.4990	0.5315	0.1000	0.0106	0.0100	6.5	20.0
Vinyl acetate	Ave	0.2351	0.2757		0.0117	0.0100	17.2	20.0
2-Butanone (MEK)	Ave	0.1017	0.0966	0.0500	0.0190	0.0200	-5.0	20.0
cis-1,2-Dichloroethene	Ave	0.2525	0.2676	0.1000	0.0106	0.0100	6.0	20.0
2,2-Dichloropropane	Ave	0.2933	0.3061		0.0104	0.0100	4.4	20.0
Chlorobromomethane	Ave	0.1145	0.1176		0.0103	0.0100	2.7	20.0
Tetrahydrofuran	Ave	0.0625	0.0593		0.0190	0.0200	-5.1	20.0
Chloroform	Ave	0.4170	0.4274	0.2000	0.0102	0.0100	2.5	20.0
1,1,1-Trichloroethane	Ave	0.3508	0.3712	0.1000	0.0106	0.0100	5.8	20.0
Cyclohexane	Ave	0.5306	0.5945	0.1000	0.0112	0.0100	12.0	20.0
1,1-Dichloropropene	Ave	0.3114	0.3500		0.0112	0.0100	12.4	20.0
Carbon tetrachloride	Ave	0.3015	0.3216	0.1000	0.0107	0.0100	6.7	20.0
Isobutyl alcohol	Ave	0.0058	0.0052		0.227	0.250	-9.3	20.0
1,2-Dichloroethane	Ave	0.3687	0.3769	0.1000	0.0102	0.0100	2.2	20.0
Benzene	Ave	0.9517	0.9831	0.5000	0.0103	0.0100	3.3	20.0
n-Heptane	Lin1		0.2417		0.0119	0.0100	19.5	20.0
Trichloroethene	Ave	0.2576	0.2655	0.2000	0.0103	0.0100	3.1	20.0
Methylcyclohexane	Ave	0.3388	0.3719	0.1000	0.0110	0.0100	9.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: ICV 240-164959/8 Calibration Date: 01/22/2015 10:17

Instrument ID: A3UX16 Calib Start Date: 01/22/2015 07:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/22/2015 09:52

Lab File ID: UXM06319.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-Dichloropropane	Ave	0.2628	0.2683	0.1000	0.0102	0.0100	2.1	20.0
Dibromomethane	Ave	0.1163	0.1168		0.0100	0.0100	0.5	20.0
1,4-Dioxane	Ave	0.0013	0.0012		0.176	0.200	-12.2	20.0
Dichlorobromomethane	Ave	0.2977	0.2955	0.1000	0.00992	0.0100	-0.8	20.0
2-Chloroethyl vinyl ether	Ave	0.1201	0.1169		0.0117	0.0120	-2.7	20.0
cis-1,3-Dichloropropene	Ave	0.3090	0.3221	0.1500	0.0104	0.0100	4.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1999	0.1977	0.0500	0.0198	0.0200	-1.1	20.0
Toluene	Ave	1.328	1.413	0.4000	0.0106	0.0100	6.4	20.0
trans-1,3-Dichloropropene	Ave	0.3371	0.3900	0.1000	0.0116	0.0100	15.7	20.0
Ethyl methacrylate	Ave	0.2488	0.2705		0.0109	0.0100	8.7	20.0
1,1,2-Trichloroethane	Ave	0.2278	0.2298	0.1000	0.0101	0.0100	0.8	20.0
1,3-Dichloropropane	Ave	0.4174	0.4198		0.0101	0.0100	0.6	20.0
Tetrachloroethene	Ave	0.2645	0.2821	0.2000	0.0107	0.0100	6.6	20.0
2-Hexanone	Ave	0.1901	0.1919	0.0500	0.0202	0.0200	1.0	20.0
Chlorodibromomethane	Ave	0.2474	0.2609		0.0105	0.0100	5.4	20.0
Ethylene Dibromide	Ave	0.2242	0.2393		0.0107	0.0100	6.7	20.0
Chlorobenzene	Ave	0.8908	0.9210	0.3000	0.0103	0.0100	3.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2996	0.3172		0.0106	0.0100	5.9	20.0
Ethylbenzene	Ave	0.4552	0.4790		0.0105	0.0100	5.2	20.0
m-Xylene & p-Xylene	Ave	0.5620	0.5915		0.0105	0.0100	5.2	20.0
o-Xylene	Ave	0.5448	0.5756		0.0106	0.0100	5.6	20.0
Styrene	Ave	0.8690	0.8590	0.3000	0.00988	0.0100	-1.2	20.0
Bromoform	Ave	0.1412	0.1455	0.1000	0.0103	0.0100	3.1	20.0
Isopropylbenzene	Ave	1.392	1.487	0.1000	0.0107	0.0100	6.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4652	0.4740	0.3000	0.0102	0.0100	1.9	20.0
Bromobenzene	Ave	0.6578	0.6658		0.0101	0.0100	1.2	20.0
1,2,3-Trichloropropane	Ave	0.1636	0.1548		0.00946	0.0100	-5.4	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1556	0.1619		0.0104	0.0100	4.0	20.0
N-Propylbenzene	Ave	0.6756	0.6819		0.0101	0.0100	0.9	20.0
2-Chlorotoluene	Ave	0.5977	0.6210		0.0104	0.0100	3.9	20.0
1,3,5-Trimethylbenzene	Ave	1.968	2.036		0.0103	0.0100	3.4	20.0
4-Chlorotoluene	Ave	0.6290	0.6542		0.0104	0.0100	4.0	20.0
tert-Butylbenzene	Ave	1.718	1.745		0.0102	0.0100	1.5	20.0
1,2,4-Trimethylbenzene	Ave	2.092	2.107		0.0101	0.0100	0.7	20.0
sec-Butylbenzene	Ave	2.262	2.283		0.0101	0.0100	0.9	20.0
1,3-Dichlorobenzene	Ave	1.256	1.230	0.6000	0.00979	0.0100	-2.1	20.0
4-Isopropyltoluene	Ave	2.095	2.091		0.00998	0.0100	-0.2	20.0
1,4-Dichlorobenzene	Ave	1.304	1.306	0.5000	0.0100	0.0100	0.2	20.0
n-Butylbenzene	Ave	1.605	1.591		0.00991	0.0100	-0.9	20.0
1,2-Dichlorobenzene	Ave	1.179	1.191	0.4000	0.0101	0.0100	1.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0763	0.0703	0.0500	0.00921	0.0100	-7.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: ICV 240-164959/8 Calibration Date: 01/22/2015 10:17

Instrument ID: A3UX16 Calib Start Date: 01/22/2015 07:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/22/2015 09:52

Lab File ID: UXM06319.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
1,2,4-Trichlorobenzene	Ave	0.6390	0.6101	0.2000	0.00955	0.0100	-4.5	20.0
Hexachlorobutadiene	Ave	0.3023	0.2577		0.00853	0.0100	-14.7	20.0
Naphthalene	Ave	1.302	1.292		0.00993	0.0100	-0.7	20.0
1,2,3-Trichlorobenzene	Ave	0.5474	0.5274		0.00963	0.0100	-3.7	20.0
Dibromofluoromethane (Surr)	Ave	0.2090	0.2011		0.0110	0.0114	-3.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2672	0.2538		0.0108	0.0114	-5.0	20.0
Toluene-d8 (Surr)	Ave	1.140	1.149		0.0115	0.0114	0.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4147	0.4537		0.0125	0.0114	9.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: CCVIS 240-174410/2 Calibration Date: 03/31/2015 08:32

Instrument ID: A3UX16 Calib Start Date: 01/22/2015 07:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/22/2015 09:52

Lab File ID: UXM6943.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	0.3073	0.2182	0.1000	0.00710	0.0100	-29.0*	20.0
Chloromethane	Ave	0.4624	0.3975	0.1000	0.00860	0.0100	-14.0	20.0
Vinyl chloride	Ave	0.3886	0.3259	0.1000	0.00839	0.0100	-16.1	20.0
Bromomethane	Ave	0.1207	0.1061	0.0500	0.00878	0.0100	-12.2	20.0
Chloroethane	Ave	0.1809	0.1643	0.0500	0.00908	0.0100	-9.2	20.0
Dichlorofluoromethane	Ave	0.3242	0.3159		0.00974	0.0100	-2.6	20.0
Trichlorofluoromethane	Ave	0.2948	0.2608	0.1000	0.00885	0.0100	-11.5	20.0
Ethyl ether	Ave	0.2263	0.2474		0.0109	0.0100	9.3	20.0
Acrolein	Ave	0.0192	0.0218		0.0566	0.0500	13.2	20.0
1,1-Dichloroethene	Ave	0.2165	0.2229	0.1000	0.0103	0.0100	2.9	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.1857	0.1779	0.0500	0.00958	0.0100	-4.2	20.0
Acetone	Lin1		0.0950	0.0500	0.0222	0.0200	10.8	20.0
Iodomethane	Ave	0.3324	0.3179		0.00956	0.0100	-4.4	20.0
Carbon disulfide	Ave	0.6569	0.5999	0.1000	0.00913	0.0100	-8.7	20.0
3-Chloro-1-propene	Ave	0.1331	0.1360		0.0102	0.0100	2.2	20.0
Methyl acetate	Ave	0.1834	0.2385	0.1000	0.0650	0.0500	30.0*	20.0
Methylene Chloride	Ave	0.2521	0.2470	0.1000	0.00980	0.0100	-2.0	20.0
2-Methyl-2-propanol	Ave	0.0140	0.0156		0.112	0.100	11.8	20.0
Acrylonitrile	Ave	0.0863	0.1119		0.130	0.100	29.8*	20.0
Methyl tert-butyl ether	Ave	0.5692	0.5856	0.1000	0.0103	0.0100	2.9	20.0
trans-1,2-Dichloroethene	Ave	0.2431	0.2482	0.1000	0.0102	0.0100	2.1	20.0
Hexane	Ave	0.0542	0.0635		0.0117	0.0100	17.1	20.0
1,1-Dichloroethane	Ave	0.4990	0.5147	0.1000	0.0103	0.0100	3.1	20.0
Vinyl acetate	Ave	0.2351	0.3047		0.0124	0.00960	29.6*	20.0
2-Butanone (MEK)	Ave	0.1017	0.1343	0.0500	0.0264	0.0200	32.0*	20.0
cis-1,2-Dichloroethene	Ave	0.2525	0.2607	0.1000	0.0103	0.0100	3.2	20.0
2,2-Dichloropropane	Ave	0.2933	0.2281		0.00778	0.0100	-22.2*	20.0
Chlorobromomethane	Ave	0.1145	0.1282		0.0112	0.0100	11.9	20.0
Tetrahydrofuran	Ave	0.0625	0.0764		0.0244	0.0200	22.2*	20.0
Chloroform	Ave	0.4170	0.4213	0.2000	0.0101	0.0100	1.0	20.0
1,1,1-Trichloroethane	Ave	0.3508	0.3254	0.1000	0.00927	0.0100	-7.3	20.0
Cyclohexane	Ave	0.5306	0.5593	0.1000	0.0105	0.0100	5.4	20.0
1,1-Dichloropropene	Ave	0.3114	0.3102		0.00996	0.0100	-0.4	20.0
Carbon tetrachloride	Ave	0.3015	0.3048	0.1000	0.0101	0.0100	1.1	20.0
Isobutyl alcohol	Ave	0.0058	0.0073		0.314	0.250	25.5*	20.0
1,2-Dichloroethane	Ave	0.3687	0.4039	0.1000	0.0110	0.0100	9.6	20.0
Benzene	Ave	0.9517	0.9892	0.5000	0.0104	0.0100	3.9	20.0
n-Heptane	Lin1		0.2577		0.0129	0.0100	29.2*	20.0
Trichloroethene	Ave	0.2576	0.2675	0.2000	0.0104	0.0100	3.8	20.0
1,2-Dichloropropane	Ave	0.2628	0.2847	0.1000	0.0108	0.0100	8.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: CCVIS 240-174410/2 Calibration Date: 03/31/2015 08:32

Instrument ID: A3UX16 Calib Start Date: 01/22/2015 07:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/22/2015 09:52

Lab File ID: UXM6943.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
Methylcyclohexane	Ave	0.3388	0.3889	0.1000	0.0115	0.0100	14.8	20.0
1,4-Dioxane	Ave	0.0013	0.0017		0.248	0.200	24.0*	20.0
Dibromomethane	Ave	0.1163	0.1294		0.0111	0.0100	11.3	20.0
Dichlorobromomethane	Ave	0.2977	0.3103	0.1000	0.0104	0.0100	4.2	20.0
2-Chloroethyl vinyl ether	Ave	0.1201	0.1463		0.0244	0.0200	21.8*	20.0
cis-1,3-Dichloropropene	Ave	0.3090	0.3296	0.1500	0.0107	0.0100	6.7	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1999	0.2544	0.0500	0.0255	0.0200	27.3*	20.0
Toluene	Ave	1.328	1.462	0.4000	0.0110	0.0100	10.1	20.0
trans-1,3-Dichloropropene	Ave	0.3371	0.3870	0.1000	0.0115	0.0100	14.8	20.0
Ethyl methacrylate	Ave	0.2488	0.2946		0.0118	0.0100	18.4	20.0
1,1,2-Trichloroethane	Ave	0.2278	0.2785	0.1000	0.0122	0.0100	22.2*	20.0
1,3-Dichloropropane	Ave	0.4174	0.4885		0.0117	0.0100	17.0	20.0
Tetrachloroethene	Ave	0.2645	0.3107	0.2000	0.0117	0.0100	17.5	20.0
2-Hexanone	Ave	0.1901	0.2472	0.0500	0.0260	0.0200	30.1*	20.0
Chlorodibromomethane	Ave	0.2474	0.3014		0.0122	0.0100	21.8*	20.0
Ethylene Dibromide	Ave	0.2242	0.2789		0.0124	0.0100	24.4*	20.0
Chlorobenzene	Ave	0.8908	0.9769	0.3000	0.0110	0.0100	9.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.2996	0.3260		0.0109	0.0100	8.8	20.0
Ethylbenzene	Ave	0.4552	0.5163		0.0113	0.0100	13.4	20.0
m-Xylene & p-Xylene	Ave	0.5620	0.6604		0.0118	0.0100	17.5	20.0
o-Xylene	Ave	0.5448	0.6178		0.0113	0.0100	13.4	20.0
Styrene	Ave	0.8690	0.9861	0.3000	0.0113	0.0100	13.5	20.0
Bromoform	Ave	0.1412	0.1793	0.1000	0.0127	0.0100	27.0*	20.0
Isopropylbenzene	Ave	1.392	1.603	0.1000	0.0115	0.0100	15.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.4652	0.5638	0.3000	0.0121	0.0100	21.2*	20.0
Bromobenzene	Ave	0.6578	0.6868		0.0104	0.0100	4.4	20.0
1,2,3-Trichloropropane	Ave	0.1636	0.1882		0.0115	0.0100	15.0	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1556	0.2053		0.0132	0.0100	31.9*	20.0
N-Propylbenzene	Ave	0.6756	0.7890		0.0117	0.0100	16.8	20.0
2-Chlorotoluene	Ave	0.5977	0.6719		0.0112	0.0100	12.4	20.0
1,3,5-Trimethylbenzene	Ave	1.968	2.343		0.0119	0.0100	19.0	20.0
4-Chlorotoluene	Ave	0.6290	0.7082		0.0113	0.0100	12.6	20.0
tert-Butylbenzene	Ave	1.718	2.102		0.0122	0.0100	22.3*	20.0
1,2,4-Trimethylbenzene	Ave	2.092	2.445		0.0117	0.0100	16.9	20.0
sec-Butylbenzene	Ave	2.262	2.822		0.0125	0.0100	24.8*	20.0
1,3-Dichlorobenzene	Ave	1.256	1.420	0.6000	0.0113	0.0100	13.0	20.0
4-Isopropyltoluene	Ave	2.095	2.603		0.0124	0.0100	24.2*	20.0
1,4-Dichlorobenzene	Ave	1.304	1.458	0.5000	0.0112	0.0100	11.8	20.0
n-Butylbenzene	Ave	1.605	2.032		0.0127	0.0100	26.6*	20.0
1,2-Dichlorobenzene	Ave	1.179	1.331	0.4000	0.0113	0.0100	12.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.0763	0.0970	0.0500	0.0127	0.0100	27.1*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Lab Sample ID: CCVIS 240-174410/2 Calibration Date: 03/31/2015 08:32

Instrument ID: A3UX16 Calib Start Date: 01/22/2015 07:59

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 01/22/2015 09:52

Lab File ID: UXM6943.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
1,2,4-Trichlorobenzene	Ave	0.6390	0.7424	0.2000	0.0116	0.0100	16.2	20.0
Hexachlorobutadiene	Ave	0.3023	0.3070		0.0102	0.0100	1.6	20.0
Naphthalene	Ave	1.302	1.564		0.0120	0.0100	20.1*	20.0
1,2,3-Trichlorobenzene	Ave	0.5474	0.6863		0.0125	0.0100	25.4*	20.0
Dibromofluoromethane (Surr)	Ave	0.2090	0.2005		0.0109	0.0114	-4.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2672	0.2661		0.0114	0.0114	-0.4	20.0
Toluene-d8 (Surr)	Ave	1.140	1.163		0.0116	0.0114	2.0	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4147	0.4469		0.0123	0.0114	7.8	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-174260/6

Matrix: Water | Lab File ID: UXJ5189.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 12:15

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	1.0	0.45
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.42	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.44	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
142-28-9	1,3-Dichloropropane	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	0.53	U	10	0.53
110-75-8	2-Chloroethyl vinyl ether	0.59	U	10	0.59
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40
591-78-6	2-Hexanone	0.48	U	10	0.48
106-43-4	4-Chlorotoluene	0.29	U	1.0	0.29
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	0.99	U	10	0.99
67-64-1	Acetone	1.02	J	10	0.94
71-43-2	Benzene	0.35	U	1.0	0.35
108-86-1	Bromobenzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	1.0	0.44
75-15-0	Carbon disulfide	0.38	U	1.0	0.38
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-174260/6

Matrix: Water | Lab File ID: UXJ5189.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 12:15

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.42	U	1.0	0.42
74-97-5	Bromochloromethane	0.50	U	1.0	0.50
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
75-27-4	Bromodichloromethane	0.29	U	1.0	0.29
75-65-0	tert-Butyl alcohol	4.9	U	50	4.9
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.50	U	10	0.50
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.33	U	1.0	0.33
179601-23-1	m-Xylene & p-Xylene	0.24	U	2.0	0.24
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.31	U	1.0	0.31
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.25	U	1.0	0.25
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.30	U	5.0	0.30
637-92-3	Ethyl tert-butyl ether	0.23	U	5.0	0.23
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.52	U	2.0	0.52
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.32	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-174260/6

Matrix: Water Lab File ID: UXJ5189.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 12:15

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.: 174260 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	110		74-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-121
460-00-4	4-Bromofluorobenzene (Surr)	89		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-174410/6

Matrix: Water | Lab File ID: UXM6947.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/31/2015 10:03

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.: 174410 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
67-64-1	Acetone	2.96	J	10	0.94
108-20-3	Diisopropyl ether	0.50	U	10	0.50
994-05-8	Tert-amyl methyl ether	0.30	U	5.0	0.30
637-92-3	Ethyl tert-butyl ether	0.23	U	5.0	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		74-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-121
460-00-4	4-Bromofluorobenzene (Surr)	97		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-174260/4

Matrix: Water | Lab File ID: UXJ5186.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 10:52

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	10.4		1.0	0.28
71-55-6	1,1,1-Trichloroethane	9.70		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	10.5		1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	8.85		1.0	0.45
75-34-3	1,1-Dichloroethane	10.0		1.0	0.30
75-35-4	1,1-Dichloroethene	9.71		1.0	0.45
563-58-6	1,1-Dichloropropene	10.5		1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	11.2		1.0	0.37
96-18-4	1,2,3-Trichloropropane	11.2		1.0	0.44
120-82-1	1,2,4-Trichlorobenzene	11.8		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	9.74		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	12.3		2.0	0.82
95-50-1	1,2-Dichlorobenzene	10.9		1.0	0.25
107-06-2	1,2-Dichloroethane	10.9		1.0	0.23
78-87-5	1,2-Dichloropropane	9.33		1.0	0.25
541-73-1	1,3-Dichlorobenzene	10.2		1.0	0.19
142-28-9	1,3-Dichloropropane	11.0		1.0	0.19
106-46-7	1,4-Dichlorobenzene	10.7		1.0	0.27
594-20-7	2,2-Dichloropropane	9.60		1.0	0.26
78-93-3	2-Butanone (MEK)	17.6		10	0.53
110-75-8	2-Chloroethyl vinyl ether	6.17	J	10	0.59
95-49-8	2-Chlorotoluene	9.87		1.0	0.40
591-78-6	2-Hexanone	19.9		10	0.48
106-43-4	4-Chlorotoluene	10.7		1.0	0.29
99-87-6	4-Isopropyltoluene	9.76		1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	17.3		10	0.99
67-64-1	Acetone	14.4		10	0.94
71-43-2	Benzene	9.58		1.0	0.35
108-86-1	Bromobenzene	10.2		1.0	0.35
75-25-2	Bromoform	9.27		1.0	0.56
74-83-9	Bromomethane	7.97		1.0	0.44
75-15-0	Carbon disulfide	11.2		1.0	0.38
56-23-5	Carbon tetrachloride	9.61		1.0	0.43
108-90-7	Chlorobenzene	10.4		1.0	0.25
124-48-1	Chlorodibromomethane	10.6		1.0	0.43
75-00-3	Chloroethane	8.53		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-174260/4

Matrix: Water Lab File ID: UXJ5186.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 10:52

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.: 174260 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	10.2		1.0	0.25
74-87-3	Chloromethane	7.64		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.55		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	9.27		1.0	0.46
74-95-3	Dibromomethane	9.95		1.0	0.42
74-97-5	Bromochloromethane	10.0		1.0	0.50
75-71-8	Dichlorodifluoromethane	8.03		1.0	0.32
75-27-4	Bromodichloromethane	9.71		1.0	0.29
75-65-0	tert-Butyl alcohol	80.3		50	4.9
100-41-4	Ethylbenzene	10.3		1.0	0.25
87-68-3	Hexachlorobutadiene	11.0		1.0	0.35
98-82-8	Isopropylbenzene	9.58		1.0	0.35
1634-04-4	Methyl tert-butyl ether	8.89		1.0	0.20
75-09-2	Methylene Chloride	10.3		1.0	0.33
179601-23-1	m-Xylene & p-Xylene	9.98		2.0	0.24
91-20-3	Naphthalene	11.1		1.0	0.45
104-51-8	n-Butylbenzene	10.7		1.0	0.31
103-65-1	N-Propylbenzene	10.4		1.0	0.40
95-47-6	o-Xylene	9.60		1.0	0.25
135-98-8	sec-Butylbenzene	9.93		1.0	0.48
100-42-5	Styrene	8.76		1.0	0.45
127-18-4	Tetrachloroethene	10.4		1.0	0.31
108-88-3	Toluene	11.2		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	9.79		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	11.7		1.0	0.56
79-01-6	Trichloroethene	9.86		1.0	0.22
75-69-4	Trichlorofluoromethane	8.87		1.0	0.49
108-05-4	Vinyl acetate	6.61		2.0	0.41
75-01-4	Vinyl chloride	8.40		1.0	0.29
1330-20-7	Xylenes, Total	19.6		2.0	0.52
98-06-6	tert-Butylbenzene	9.85		1.0	0.41
106-93-4	1,2-Dibromoethane	10.6		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-174260/4

Matrix: Water Lab File ID: UXJ5186.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 10:52

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.: 174260 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	109		74-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
460-00-4	4-Bromofluorobenzene (Surr)	92		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-174410/4

Matrix: Water Lab File ID: UXM6945.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 03/31/2015 09:18

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.: 174410 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	21.7		10	0.94

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		74-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
460-00-4	4-Bromofluorobenzene (Surr)	102		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-4-032615 MS | Lab Sample ID: 240-48741-3 MS

Matrix: Water | Lab File ID: UXJ5201.D

Analysis Method: 8260C | Date Collected: 03/26/2015 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 16:50

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	9.99		1.0	0.28
71-55-6	1,1,1-Trichloroethane	9.20		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	10.0		1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	5.40		1.0	0.45
75-34-3	1,1-Dichloroethane	9.86		1.0	0.30
75-35-4	1,1-Dichloroethene	8.72		1.0	0.45
563-58-6	1,1-Dichloropropene	9.70		1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	10.5		1.0	0.37
96-18-4	1,2,3-Trichloropropane	10.7		1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	10.8		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	9.22		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	10.6		2.0	0.82
95-50-1	1,2-Dichlorobenzene	10.4		1.0	0.25
107-06-2	1,2-Dichloroethane	11.0		1.0	0.23
78-87-5	1,2-Dichloropropane	9.10		1.0	0.25
541-73-1	1,3-Dichlorobenzene	9.78		1.0	0.19
142-28-9	1,3-Dichloropropane	10.7		1.0	0.19
106-46-7	1,4-Dichlorobenzene	10.1		1.0	0.27
594-20-7	2,2-Dichloropropane	8.71		1.0	0.26
78-93-3	2-Butanone (MEK)	15.8		10	0.53
110-75-8	2-Chloroethyl vinyl ether	0.59	U	10	0.59
95-49-8	2-Chlorotoluene	9.93		1.0	0.40
591-78-6	2-Hexanone	18.9		10	0.48
106-43-4	4-Chlorotoluene	9.91		1.0	0.29
99-87-6	4-Isopropyltoluene	9.09		1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	15.9		10	0.99
67-64-1	Acetone	15.6		10	0.94
71-43-2	Benzene	9.38		1.0	0.35
108-86-1	Bromobenzene	9.84		1.0	0.35
75-25-2	Bromoform	8.30		1.0	0.56
74-83-9	Bromomethane	7.90		1.0	0.44
75-15-0	Carbon disulfide	10.1		1.0	0.38
56-23-5	Carbon tetrachloride	8.61		1.0	0.43
108-90-7	Chlorobenzene	9.97		1.0	0.25
124-48-1	Chlorodibromomethane	10.2		1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-4-032615 MS | Lab Sample ID: 240-48741-3 MS

Matrix: Water | Lab File ID: UXJ5201.D

Analysis Method: 8260C | Date Collected: 03/26/2015 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 16:50

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	8.08		1.0	0.32
67-66-3	Chloroform	9.96		1.0	0.25
74-87-3	Chloromethane	7.57		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.44		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	8.79		1.0	0.46
74-95-3	Dibromomethane	9.50		1.0	0.42
74-97-5	Bromochloromethane	9.55		1.0	0.50
75-71-8	Dichlorodifluoromethane	5.87		1.0	0.32
75-27-4	Bromodichloromethane	9.41		1.0	0.29
75-65-0	tert-Butyl alcohol	67.8		50	4.9
100-41-4	Ethylbenzene	9.95		1.0	0.25
87-68-3	Hexachlorobutadiene	8.58		1.0	0.35
108-20-3	Diisopropyl ether	0.50	U	10	0.50
98-82-8	Isopropylbenzene	9.07		1.0	0.35
1634-04-4	Methyl tert-butyl ether	8.57		1.0	0.20
75-09-2	Methylene Chloride	9.31		1.0	0.33
179601-23-1	m-Xylene & p-Xylene	9.82		2.0	0.24
91-20-3	Naphthalene	10.5		1.0	0.45
104-51-8	n-Butylbenzene	9.92		1.0	0.31
103-65-1	N-Propylbenzene	9.57		1.0	0.40
95-47-6	o-Xylene	9.51		1.0	0.25
135-98-8	sec-Butylbenzene	9.30		1.0	0.48
100-42-5	Styrene	8.78		1.0	0.45
994-05-8	Tert-amyl methyl ether	0.30	U	5.0	0.30
637-92-3	Ethyl tert-butyl ether	0.23	U	5.0	0.23
127-18-4	Tetrachloroethene	9.28		1.0	0.31
108-88-3	Toluene	11.0		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	9.50		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	10.8		1.0	0.56
79-01-6	Trichloroethene	9.56		1.0	0.22
75-69-4	Trichlorofluoromethane	7.39		1.0	0.49
108-05-4	Vinyl acetate	6.07		2.0	0.41
75-01-4	Vinyl chloride	7.67		1.0	0.29
1330-20-7	Xylenes, Total	19.3		2.0	0.52
98-06-6	tert-Butylbenzene	8.92		1.0	0.41
106-93-4	1,2-Dibromoethane	10.7		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-4-032615 MS Lab Sample ID: 240-48741-3 MS

Matrix: Water Lab File ID: UXJ5201.D

Analysis Method: 8260C Date Collected: 03/26/2015 11:15

Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 16:50

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.: 174260 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	110		74-120
1868-53-7	Dibromofluoromethane (Surr)	98		75-121
460-00-4	4-Bromofluorobenzene (Surr)	90		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-4-032615 MSD | Lab Sample ID: 240-48741-3 MSD

Matrix: Water | Lab File ID: UXJ5202.D

Analysis Method: 8260C | Date Collected: 03/26/2015 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 17:13

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	9.79		1.0	0.28
71-55-6	1,1,1-Trichloroethane	9.51		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	10.2		1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	7.97		1.0	0.45
75-34-3	1,1-Dichloroethane	9.49		1.0	0.30
75-35-4	1,1-Dichloroethene	8.65		1.0	0.45
563-58-6	1,1-Dichloropropene	10.1		1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	11.0		1.0	0.37
96-18-4	1,2,3-Trichloropropane	10.9		1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	11.2		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	9.93		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	9.30		2.0	0.82
95-50-1	1,2-Dichlorobenzene	10.8		1.0	0.25
107-06-2	1,2-Dichloroethane	10.7		1.0	0.23
78-87-5	1,2-Dichloropropane	9.05		1.0	0.25
541-73-1	1,3-Dichlorobenzene	9.94		1.0	0.19
142-28-9	1,3-Dichloropropane	10.3		1.0	0.19
106-46-7	1,4-Dichlorobenzene	10.5		1.0	0.27
594-20-7	2,2-Dichloropropane	8.39		1.0	0.26
78-93-3	2-Butanone (MEK)	16.7		10	0.53
110-75-8	2-Chloroethyl vinyl ether	0.59	U	10	0.59
95-49-8	2-Chlorotoluene	10.4		1.0	0.40
591-78-6	2-Hexanone	18.3		10	0.48
106-43-4	4-Chlorotoluene	10.4		1.0	0.29
99-87-6	4-Isopropyltoluene	10.1		1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	15.9		10	0.99
67-64-1	Acetone	16.5		10	0.94
71-43-2	Benzene	9.26		1.0	0.35
108-86-1	Bromobenzene	10.1		1.0	0.35
75-25-2	Bromoform	7.84		1.0	0.56
74-83-9	Bromomethane	7.91		1.0	0.44
75-15-0	Carbon disulfide	10.3		1.0	0.38
56-23-5	Carbon tetrachloride	9.03		1.0	0.43
108-90-7	Chlorobenzene	9.99		1.0	0.25
124-48-1	Chlorodibromomethane	9.66		1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-4-032615 MSD | Lab Sample ID: 240-48741-3 MSD

Matrix: Water | Lab File ID: UXJ5202.D

Analysis Method: 8260C | Date Collected: 03/26/2015 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 03/30/2015 17:13

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.: 174260 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	7.88		1.0	0.32
67-66-3	Chloroform	10.2		1.0	0.25
74-87-3	Chloromethane	7.79		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	9.26		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	8.57		1.0	0.46
74-95-3	Dibromomethane	9.66		1.0	0.42
74-97-5	Bromochloromethane	9.27		1.0	0.50
75-71-8	Dichlorodifluoromethane	7.34		1.0	0.32
75-27-4	Bromodichloromethane	9.55		1.0	0.29
75-65-0	tert-Butyl alcohol	68.6		50	4.9
100-41-4	Ethylbenzene	9.84		1.0	0.25
87-68-3	Hexachlorobutadiene	10.4		1.0	0.35
108-20-3	Diisopropyl ether	0.50	U	10	0.50
98-82-8	Isopropylbenzene	9.35		1.0	0.35
1634-04-4	Methyl tert-butyl ether	8.26		1.0	0.20
75-09-2	Methylene Chloride	9.18		1.0	0.33
179601-23-1	m-Xylene & p-Xylene	9.85		2.0	0.24
91-20-3	Naphthalene	10.9		1.0	0.45
104-51-8	n-Butylbenzene	10.6		1.0	0.31
103-65-1	N-Propylbenzene	10.4		1.0	0.40
95-47-6	o-Xylene	9.49		1.0	0.25
135-98-8	sec-Butylbenzene	10.2		1.0	0.48
100-42-5	Styrene	8.59		1.0	0.45
994-05-8	Tert-amyl methyl ether	0.30	U	5.0	0.30
637-92-3	Ethyl tert-butyl ether	0.23	U	5.0	0.23
127-18-4	Tetrachloroethene	10.1		1.0	0.31
108-88-3	Toluene	10.8		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	9.53		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	10.1		1.0	0.56
79-01-6	Trichloroethene	9.21		1.0	0.22
75-69-4	Trichlorofluoromethane	8.73		1.0	0.49
108-05-4	Vinyl acetate	6.00		2.0	0.41
75-01-4	Vinyl chloride	8.15		1.0	0.29
1330-20-7	Xylenes, Total	19.3		2.0	0.52
98-06-6	tert-Butylbenzene	9.89		1.0	0.41
106-93-4	1,2-Dibromoethane	10.2		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Client Sample ID: WSP-4-032615 MSD Lab Sample ID: 240-48741-3 MSD

Matrix: Water Lab File ID: UXJ5202.D

Analysis Method: 8260C Date Collected: 03/26/2015 11:15

Sample wt/vol: 5(mL) Date Analyzed: 03/30/2015 17:13

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.: 174260 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	109		74-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-121
460-00-4	4-Bromofluorobenzene (Surr)	91		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		63-129

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Instrument ID: A3UX11 Start Date: 02/18/2015 11:32

Analysis Batch Number: 168426 End Date: 02/18/2015 16:58

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-168426/1		02/18/2015 11:32	1	BFB218.D	DB-624 0.18(mm)
STD8260 240-168426/2 IC		02/18/2015 12:05	1	UXJ4374.D	DB-624 0.18(mm)
STD8260 240-168426/3 IC		02/18/2015 12:28	1	UXJ4375.D	DB-624 0.18(mm)
STD8260 240-168426/4 ICIS		02/18/2015 12:50	1	UXJ4376.D	DB-624 0.18(mm)
STD8260 240-168426/5 IC		02/18/2015 13:12	1	UXJ4377.D	DB-624 0.18(mm)
STD8260 240-168426/6 IC		02/18/2015 13:35	1	UXJ4378.D	DB-624 0.18(mm)
STD8260 240-168426/7 IC		02/18/2015 13:58	1	UXJ4379.D	DB-624 0.18(mm)
ICV 240-168426/14		02/18/2015 14:20	1	UXJ4380.D	DB-624 0.18(mm)
STD6 240-168426/8 IC		02/18/2015 14:43	1	UXJ4381.D	DB-624 0.18(mm)
STD5 240-168426/9 IC		02/18/2015 15:05	1	UXJ4382.D	DB-624 0.18(mm)
STD4 240-168426/10 IC		02/18/2015 15:28	1	UXJ4383.D	DB-624 0.18(mm)
STD3 240-168426/11 IC		02/18/2015 15:50	1	UXJ4384.D	DB-624 0.18(mm)
STD2 240-168426/12 IC		02/18/2015 16:13	1	UXJ4385.D	DB-624 0.18(mm)
STD1 240-168426/13 IC		02/18/2015 16:35	1	UXJ4386.D	DB-624 0.18(mm)
ICV 240-168426/15		02/18/2015 16:58	1	UXJ4387.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Instrument ID: A3UX11 Start Date: 03/30/2015 09:52

Analysis Batch Number: 174260 End Date: 03/30/2015 17:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-174260/1		03/30/2015 09:52	1	BFB330.D	DB-624 0.18(mm)
CCVIS 240-174260/2		03/30/2015 10:29	1	UXJ5185.D	DB-624 0.18(mm)
LCS 240-174260/4		03/30/2015 10:52	1	UXJ5186.D	DB-624 0.18(mm)
CCV 240-174260/3		03/30/2015 11:14	1	UXJ5187.D	DB-624 0.18(mm)
ZZZZZ		03/30/2015 11:37	1		DB-624 0.18(mm)
MB 240-174260/6		03/30/2015 12:15	1	UXJ5189.D	DB-624 0.18(mm)
ZZZZZ		03/30/2015 12:38	1		DB-624 0.18(mm)
240-48741-1	TB-032615	03/30/2015 13:00	1	UXJ5191.D	DB-624 0.18(mm)
240-48741-2	WSP-2-032615	03/30/2015 13:23	1	UXJ5192.D	DB-624 0.18(mm)
240-48741-3	WSP-4-032615	03/30/2015 13:45	1	UXJ5193.D	DB-624 0.18(mm)
240-48741-3 MS	WSP-4-032615 MS	03/30/2015 16:50	1	UXJ5201.D	DB-624 0.18(mm)
240-48741-3 MSD	WSP-4-032615 MSD	03/30/2015 17:13	1	UXJ5202.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Instrument ID: A3UX16 Start Date: 01/14/2015 14:28

Analysis Batch Number: 164166 End Date: 01/14/2015 17:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-164166/1		01/14/2015 14:28	1	BFB4201.D	DB-624 0.18(mm)
STDA9 240-164166/3 IC		01/14/2015 15:28	1	UXM06235.D	DB-624 0.18(mm)
STDA9 240-164166/4 IC		01/14/2015 15:51	1	UXM06236.D	DB-624 0.18(mm)
STDA9 240-164166/5 IC		01/14/2015 16:14	1	UXM06237.D	DB-624 0.18(mm)
STDA9 240-164166/6 IC		01/14/2015 16:36	1	UXM06238.D	DB-624 0.18(mm)
STDA9 240-164166/7 IC		01/14/2015 16:59	1	UXM06239.D	DB-624 0.18(mm)
STDA9 240-164166/8 IC		01/14/2015 17:21	1	UXM06240.D	DB-624 0.18(mm)
ICV 240-164166/9		01/14/2015 17:44	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Instrument ID: A3UX16 Start Date: 01/22/2015 07:35

Analysis Batch Number: 164959 End Date: 01/22/2015 14:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-164959/1		01/22/2015 07:35	1	BFB4206.D	DB-624 0.18(mm)
STD8260 240-164959/2 IC		01/22/2015 07:59	1	UXM06313.D	DB-624 0.18(mm)
STD8260 240-164959/3 IC		01/22/2015 08:22	1	UXM06314.D	DB-624 0.18(mm)
STD8260 240-164959/4 ICIS		01/22/2015 08:44	1	UXM06315.D	DB-624 0.18(mm)
STD8260 240-164959/5 IC		01/22/2015 09:07	1	UXM06316.D	DB-624 0.18(mm)
STD8260 240-164959/6 IC		01/22/2015 09:29	1	UXM06317.D	DB-624 0.18(mm)
STD8260 240-164959/7 IC		01/22/2015 09:52	1	UXM06318.D	DB-624 0.18(mm)
ICV 240-164959/8		01/22/2015 10:17	1	UXM06319.D	DB-624 0.18(mm)
CCV 240-164959/9		01/22/2015 10:40	1		DB-624 0.18(mm)
ZZZZZ		01/22/2015 11:02	1		DB-624 0.18(mm)
ZZZZZ		01/22/2015 11:25	1		DB-624 0.18(mm)
ZZZZZ		01/22/2015 11:47	1		DB-624 0.18(mm)
ZZZZZ		01/22/2015 12:10	5000		DB-624 0.18(mm)
ZZZZZ		01/22/2015 13:22	100		DB-624 0.18(mm)
ZZZZZ		01/22/2015 13:44	16.67		DB-624 0.18(mm)
ZZZZZ		01/22/2015 14:07	71.43		DB-624 0.18(mm)
ZZZZZ		01/22/2015 14:29	5000		DB-624 0.18(mm)
ZZZZZ		01/22/2015 14:52	5000		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-48741-1

SDG No.:

Instrument ID: A3UX16 Start Date: 03/31/2015 08:05

Analysis Batch Number: 174410 End Date: 03/31/2015 10:42

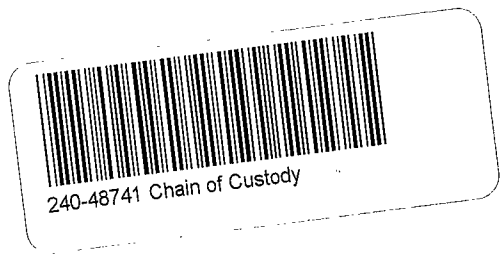
LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-174410/1		03/31/2015 08:05	1	BFB4257.D	DB-624 0.18(mm)
CCVIS 240-174410/2		03/31/2015 08:32	1	UXM6943.D	DB-624 0.18(mm)
CCV 240-174410/3		03/31/2015 08:55	1	UXM6944.D	DB-624 0.18(mm)
LCS 240-174410/4		03/31/2015 09:18	1	UXM6945.D	DB-624 0.18(mm)
ZZZZZ		03/31/2015 09:40	1		DB-624 0.18(mm)
MB 240-174410/6		03/31/2015 10:03	1	UXM6947.D	DB-624 0.18(mm)
240-48741-2	WSP-2-032615	03/31/2015 10:42	1	UXM6948.D	DB-624 0.18(mm)

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

Chain of Custody Record

24 hour TAT

TestAmerica 1.8/C2.3

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client: Tetra Tech	Project Manager: Chris Pike	Date: 3/26/15	Chain of Custody Number: 014810
Address: 20251 Century Blvd Ste 200	Telephone Number (Area Code)/Fax Number	Lab Number	Page 1 of 1
City: Germantown / State: MD / Zip Code: 20874	Site Contact: Stu Cameron	Lab Contact: John McFadden	Analysis (Attach list if more space is needed)
Project Name and Location (State): Block E MPE Maryland	Carrier/Waybill Number		Special Instructions/ Conditions of Receipt
Contract/Purchase Order/Quote No.: 112IC04770-01			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH
TB-032615	3-26-15	—		X						2		
WSP-2-032615		1110		X						3		
WSP-4-032615		1115		X						3		

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Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal: [ ] Return To Client [X] Disposal By Lab [X] Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: [X] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [ ] Other _____

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.		3/26/15	1210		3/26/15	1210
2.		3/27/15	1700	Jessie Bonot	3/28/15	9:50
3.						

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica Canton Sample Receipt Form/Narrative Login #: 49171
Canton Facility

Client Tetra Tech Site Name

Cooler unpacked by: Jessie Bonot

Cooler Received on 3/28/15 Opened on 3/28/15

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box (Client Cooler) Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

~~IR GUN# A (CF +4.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. 1.8 °C Corrected Cooler Temp. 2.3 °C ☐ See Multiple Cooler Form

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the sampler(s) clearly identified on the COC? Yes (No)
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 correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC425511
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # N/A (Yes) No

Contacted PM Date by via Verbal Voice Mail Other

Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.

Sample(s) 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 the laboratory.

Time preserved: Preservative(s) added/Lot number(s):

4/02/2015 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-48906-1

Job Description: LM MRC Block E MPE, MD

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
4/8/2015 9:40 AM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
04/08/2015

cc: Samantha Brenner
Ms. Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: LM MRC Block E MPE, MD

Report Number: 240-48906-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 4/3/2015 8:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.9º C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample TB-040215 (240-48906-2) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The samples were analyzed on 04/04/2015.

The laboratory control sample (LCS) for batch 175075 recovered outside control limits for Acrolein. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The preservative used in the sample containers received is not compatible with some requested analytes. Acrolein and 2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample DSP-3-040215 (240-48906-1) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The samples were analyzed on 04/04/2015.

The laboratory control sample (LCS) for batch 175075 recovered outside control limits for Acrolein. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH

Sample DSP-3-040215 (240-48906-1) was analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 04/03/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-48906-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-48906-1	DSP-3-040215	Water	04/02/2015 1000	04/03/2015 0805
240-48906-2TB	TB-040215	Water	04/02/2015 0000	04/03/2015 0805

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-48906-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-48906-1	**DSP-3-040215**					
pH		6.73	HF	0.100	SU	4500 H+ B-2000
240-48906-2TB	**TB-040215**					
Methylene Chloride		0.50	J	2.0	ug/L	624

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-48906-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
pH	TAL CAN	SM 4500 H+ B-2000	

Lab References:

TAL CAN = TestAmerica Canton

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-48906-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
SM 4500 H+ B-2000	Matheny, Sarah	SEM

Client: Tetra Tech, Inc. Job Number: 240-48906-1

Client Sample ID: **DSP-3-040215**

Lab Sample ID: 240-48906-1 Date Sampled: 04/02/2015 1000
Client Matrix: Water Date Received: 04/03/2015 0805

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-175075	Instrument ID:	A3UX9
	N/A	Prep Batch:	N/A	Lab File ID:	UX949282.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/04/2015 0929			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U *	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		80 - 125
4-Bromofluorobenzene (Surr)	82		80 - 120

Client: Tetra Tech, Inc. Job Number: 240-48906-1

Client Sample ID: **TB-040215**

Lab Sample ID: 240-48906-2TB Date Sampled: 04/02/2015 0000
Client Matrix: Water Date Received: 04/03/2015 0805

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-175075	Instrument ID:	A3UX9
	N/A	Prep Batch:	N/A	Lab File ID:	UX949283.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	04/04/2015 0954			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U *	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.50	J	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		80 - 125
4-Bromofluorobenzene (Surr)	85		80 - 120

General Chemistry

Client Sample ID: **DSP-3-040215**

Lab Sample ID: 240-48906-1 Date Sampled: 04/02/2015 1000

Client Matrix: Water Date Received: 04/03/2015 0805

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
pH	6.73	HF	SU	0.100	0.100	1.0	4500 H+ B-2000

Analysis Batch: 240-174978 Analysis Date: 04/03/2015 1005

Client: Tetra Tech, Inc.

Job Number: 240-48906-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec
240-48906-1	DSP-3-040215	89	82
240-48906-2	TB-040215	90	85
MB 240-175075/9		92	85
LCS 240-175075/5		85	89
240-48936-C-2 MS		89	89

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	80-120

Client: Tetra Tech, Inc. Job Number: 240-48906-1

Method Blank - Batch: 240-175075

Method: 624
Preparation: N/A

Lab Sample ID:	MB 240-175075/9	Analysis Batch:	240-175075	Instrument ID:	A3UX9
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX949246.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/03/2015 1910	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	80 - 125
4-Bromofluorobenzene (Surr)	85	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	89	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	89	80 - 120

Client: Tetra Tech, Inc. Job Number: 240-48906-1

Lab Control Sample - Batch: 240-174978

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-174978/2	Analysis Batch:	240-174978	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/03/2015 0922	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.15	6.210	101	97 - 103	

Duplicate - Batch: 240-174978

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-48906-1	Analysis Batch:	240-174978	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/03/2015 0944	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	6.73	6.630	1	20	

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-48906-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits
	F1	MS and/or MSD Recovery exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Client: Tetra Tech, Inc. Job Number: 240-48906-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-175075					
LCS 240-175075/5	Lab Control Sample	T	Water	624	
MB 240-175075/9	Method Blank	T	Water	624	
240-48906-1	DSP-3-040215	T	Water	624	
240-48906-2TB	TB-040215	T	Water	624	
240-48936-C-2 MS	Matrix Spike	T	Water	624	

Report Basis
T = Total

General Chemistry					
Analysis Batch:240-174978					
LCS 240-174978/2	Lab Control Sample	T	Water	4500 H+ B-2000	
240-48906-1	DSP-3-040215	T	Water	4500 H+ B-2000	
240-48906-1DU	Duplicate	T	Water	4500 H+ B-2000	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-48906-1

Laboratory Chronicle

Lab ID: 240-48906-1 **Client ID:** DSP-3-040215

Sample Date/Time: 04/02/2015 10:00 Received Date/Time: 04/03/2015 08:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-48906-C-1		240-175075		04/04/2015 09:29	1	TAL CAN	TJL1
A:4500 H+ B-2000	240-48906-D-1		240-174978		04/03/2015 10:05	1	TAL CAN	SEM

Lab ID: 240-48906-1 DU **Client ID:** DSP-3-040215

Sample Date/Time: 04/02/2015 10:00 Received Date/Time: 04/03/2015 08:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-48906-D-1 DU		240-174978		04/03/2015 09:44	1	TAL CAN	SEM

Lab ID: 240-48906-2 **Client ID:** TB-040215

Sample Date/Time: 04/02/2015 00:00 Received Date/Time: 04/03/2015 08:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-48906-A-2		240-175075		04/04/2015 09:54	1	TAL CAN	TJL1

Lab ID: MB **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-175075/9		240-175075		04/03/2015 19:10	1	TAL CAN	TJL1

Lab ID: LCS **Client ID:** N/A

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-175075/5		240-175075		04/03/2015 17:12	1	TAL CAN	TJL1
A:4500 H+ B-2000	LCS 240-174978/2		240-174978		04/03/2015 09:22	1	TAL CAN	SEM

Lab ID: MS **Client ID:** N/A

Sample Date/Time: 03/31/2015 13:00 Received Date/Time: 04/03/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-48936-C-2 MS		240-175075		04/04/2015 12:18	1	TAL CAN	TJL1

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_00022	08/12/15	02/12/15	MEOH, Lot 85233	50 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00019	04/21/15	10/21/14	MEOH, Lot 85233	100 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00191	02/28/15	02/21/15	MEOH, Lot na	2 mL	vm50ss_stk_00063	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00063	06/08/15	12/08/14	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00088	02/24/15	02/17/15	MEOH, Lot na	3 mL	VMACROLSTD_00022	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00022	02/28/15	01/31/15	MEOH, Lot 0000085233	20 mL	VM568720_00004	0.25 mL	Acrolein	250 ug/mL
..VM568720_00004	02/28/15		restek, Lot A0106504		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00094	04/07/15	03/31/15	MEOH, Lot na	3 mL	VMACROLSTD_00024	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00024	04/30/15	03/31/15	MEOH, Lot 0000085233	20 mL	VM568720_00006	0.25 mL	Acrolein	250 ug/mL
..VM568720_00006	05/31/15		restek, Lot A0108734		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00076	04/07/15	03/31/15	MEOH, Lot NA	2 mL	VMFASA_00017	2 mL	Acrolein	250 ug/mL
.VMFASA_00017	05/31/15	03/31/15	MEOH, Lot 0000085233	100 mL	VM568720S_00006	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00006	05/31/15		restek, Lot A0108733		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00088	04/06/15	03/30/15	MEOH, Lot NA	2 mL	VMFASG_00027	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00027	04/13/15	03/13/15	MEOH, Lot 0000085233	50 mL	VM567645S_00017	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00092	04/06/15	03/30/15	MEOH, Lot n/a	2 mL	VMRFASP_00019	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
.VMRFASP_00019	04/11/15	03/11/15	MEOH, Lot +161620000085233JB	100 mL	VM567641S_00006	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643S_00012	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
..VM567641S_00006	02/29/16	Restek, Lot A093733			(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643S_00012	07/31/17	Restek, Lot A0104963			(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
VMRGAS_00090	02/23/15	02/16/15	MEOH, Lot 0000085233	10 mL	vm567645_00031	0.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm567645_00031	02/28/15	Restek, Lot A093341			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Dichlorofluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMRGAS_00096	04/06/15	03/30/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00113	02/27/15	02/20/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00014	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00016	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00014	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00016	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00119	04/07/15	03/31/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00012	02/29/16	restek, Lot A093581			(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCPH7_00073	11/03/16		Fisher Scientific, Lot 147660		(Purchased Reagent)		pH	7 SU
WCPHLCS_00010	08/31/16		Phenova, Lot 8137-15		(Purchased Reagent)		pH	6.15 SU

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-48906-1
Project/Site: LM MRC Block E MPE, MD

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	Kentucky (WW)	State Program	4	98016
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Oregon	NELAP	10	4062
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DCA #	BFB #
TB-040215	240-48906-2	90	85

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 624

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Lab File ID: BFB2934.D BFB Injection Date: 02/23/2015

Instrument ID: A3UX9 BFB Injection Time: 18:23

Analysis Batch No.: 169262

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	47.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.7	(0.8)1
174	50.0 - 120.00 % of mass 95	84.8	
175	5.0 - 9.0 % of mass 174	5.9	(6.9)1
176	95.0 - 101.0 % of mass 174	82.9	(97.8)1
177	5.0 - 9.0 % of mass 176	5.7	(6.9)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 240-169262/8	UX948659.D	02/23/2015	20:49
	STD8260 240-169262/9	UX948660.D	02/23/2015	21:13
	STD8260 240-169262/10	UX948661.D	02/23/2015	21:37
	STD8260 240-169262/11	UX948662.D	02/23/2015	22:01
	STD8260 240-169262/12	UX948663.D	02/23/2015	22:26
	STD8260 240-169262/13	UX948664.D	02/23/2015	22:50

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Lab File ID: BFB2958.D BFB Injection Date: 04/03/2015

Instrument ID: A3UX9 BFB Injection Time: 16:16

Analysis Batch No.: 175075

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.8	
75	30.0 - 60.0 % of mass 95	46.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.3	(0.3)1
174	50.0 - 120.00 % of mass 95	96.0	
175	5.0 - 9.0 % of mass 174	6.8	(7.1)1
176	95.0 - 101.0 % of mass 174	92.7	(96.5)1
177	5.0 - 9.0 % of mass 176	6.5	(7.0)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
TB-040215	240-48906-2	UX949283.D	04/04/2015	09:54

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Sample No.: STD8260 240-169262/11 Date Analyzed: 02/23/2015 22:01

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX948662.D Heated Purge: (Y/N) N

Calibration ID: 26974

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		1105253	5.56	886336	8.32	423279	10.59
UPPER LIMIT		2210506	6.06	1772672	8.82	846558	11.09
LOWER LIMIT		552627	5.06	443168	7.82	211640	10.09
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 240-175075/3		1223043	5.57	1036598	8.32	505406	10.58

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Client Sample ID: TB-040215 Lab Sample ID: 240-48906-2

Matrix: Water Lab File ID: UX949283.D

Analysis Method: 624 Date Collected: 04/02/2015 00:00

Sample wt/vol: 5(mL) Date Analyzed: 04/04/2015 09:54

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.: 175075 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U *	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.50	J	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Client Sample ID: TB-040215 Lab Sample ID: 240-48906-2

Matrix: Water Lab File ID: UX949283.D

Analysis Method: 624 Date Collected: 04/02/2015 00:00

Sample wt/vol: 5(mL) Date Analyzed: 04/04/2015 09:54

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.: 175075 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		80-125
460-00-4	4-Bromofluorobenzene (Surr)	85		80-120

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48906-1 Analy Batch No.: 169262

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 20:49 Calibration End Date: 02/23/2015 22:50 Calibration ID: 26974

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-169262/8	UX948659.D
Level 2	STD8260 240-169262/9	UX948660.D
Level 3	STD8260 240-169262/10	UX948661.D
Level 4	STD8260 240-169262/11	UX948662.D
Level 5	STD8260 240-169262/12	UX948663.D
Level 6	STD8260 240-169262/13	UX948664.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	0.4301 0.3235	0.4358	0.4413	0.4484	0.2475	Ave		0.3878				21.0		35.0			
Chloromethane	0.4562 0.3715	0.3901	0.4116	0.4082	0.3999	Ave		0.4063				7.0		35.0			
Vinyl chloride	0.4152 0.4025	0.4724	0.4514	0.4448	0.3973	Ave		0.4306				7.0		35.0			
Bromomethane	0.3303 0.3344	0.3255	0.3322	0.3449	0.3307	Ave		0.3330				2.0		35.0			
Chloroethane	0.2015 0.3105	0.2980	0.3352	0.3211	0.3169	Ave		0.2972				16.0		35.0			
Dichlorofluoromethane	0.7407 0.6952	0.6430	0.7433	0.7513	0.7140	Ave		0.7146				5.7		35.0			
Trichlorofluoromethane	0.6088 0.5315	0.5493	0.6280	0.6316	0.4404	Ave		0.5649				13.0		35.0			
Ethyl ether	0.3443 0.2844	0.2863	0.2920	0.2745	0.2865	Ave		0.2947				8.5		35.0			
Acrolein	0.0114	0.0136	0.0114	0.0117	0.0120	Ave		0.0120				7.6		35.0			
1,1-Dichloroethene	0.5804 0.5924	0.5715	0.6321	0.5751	0.6089	Ave		0.5934				3.9		35.0			
Acetone	0.0878	0.2266	0.1036	0.0981	0.0942	Lin1	0.2860	0.0881							0.9990		0.9900
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3458 0.3453	0.2948	0.3434	0.3232	0.3532	Ave		0.3343				6.5		35.0			
Iodomethane	0.6162 0.6582	0.5611	0.6603	0.6326	0.6494	Ave		0.6296				6.0		35.0			
Carbon disulfide	1.0122 1.2116	1.0711	1.3258	0.9686	1.3387	Ave		1.1546				14.0		35.0			
Methyl acetate	0.2519 0.2218	0.2613	0.2403	0.2268	0.2319	Ave		0.2390				6.4		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48906-1 Analy Batch No.: 169262

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 20:49 Calibration End Date: 02/23/2015 22:50 Calibration ID: 26974

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								
Methylene Chloride	0.4550	0.7507	0.4941	0.4536	0.4427	Ave		0.5192				25.0		35.0			
2-Methyl-2-propanol	0.0262 0.0294	0.0302	0.0328	0.0313	0.0318	Ave		0.0303				7.7		35.0			
Acrylonitrile	0.1008 0.1159	0.1174	0.1251	0.1169	0.1198	Ave		0.1160				7.0		35.0			
Methyl tert-butyl ether	1.0368 1.1113	1.0225	1.0871	1.0768	1.1234	Ave		1.0763				3.7		35.0			
trans-1,2-Dichloroethene	0.4002 0.4747	0.4101	0.4650	0.4363	0.4675	Ave		0.4423				7.2		35.0			
Hexane	0.3148 0.2653	0.2923	0.2629	0.2380	0.2789	Ave		0.2754				9.6		35.0			
1,1-Dichloroethane	0.4666 0.5710	0.4828	0.5539	0.5243	0.5687	Ave		0.5279				8.5		35.0			
Vinyl acetate	0.2778	0.2458	0.2677	0.2588	0.2700	Ave		0.2640				4.6		35.0			
cis-1,2-Dichloroethene	0.4523 0.4531	0.4163	0.4504	0.4379	0.4640	Ave		0.4457				3.7		35.0			
2-Butanone (MEK)	0.1819 0.1192	0.1460	0.1321	0.1192	0.1217	Ave		0.1367				18.0		35.0			
2,2-Dichloropropane	0.2188 0.2441	0.2593	0.2390	0.2408	0.2558	Ave		0.2430				5.9		35.0			
Chlorobromomethane	0.2396 0.2501	0.2695	0.2454	0.2385	0.2531	Ave		0.2494				4.6		35.0			
Chloroform	0.5346 0.6077	0.5629	0.6304	0.5905	0.6219	Ave		0.5913				6.2		35.0			
1,1,1-Trichloroethane	0.2746 0.4358	0.3521	0.4271	0.4191	0.4561	Ave		0.3941				17.0		35.0			
Cyclohexane	0.4040 0.3936	0.3628	0.4052	0.3954	0.4500	Ave		0.4018				7.0		35.0			
1,1-Dichloropropene	0.4084 0.4212	0.3979	0.4364	0.3863	0.4298	Ave		0.4134				4.7		35.0			
Carbon tetrachloride	0.2528 0.3537	0.2612	0.3226	0.3081	0.3557	Ave		0.3090				14.0		35.0			
Isobutyl alcohol	0.0076 0.0080	0.0077	0.0079	0.0067	0.0079	Ave		0.0076				6.2		35.0			
Benzene	1.4017 1.3915	1.3205	1.4852	1.3942	1.4968	Ave		1.4150				4.7		35.0			
1,2-Dichloroethane	0.4984 0.4610	0.4309	0.4722	0.4462	0.4692	Ave		0.4630				5.0		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48906-1 Analy Batch No.: 169262

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 20:49 Calibration End Date: 02/23/2015 22:50 Calibration ID: 26974

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								
Trichloroethene	0.3571 0.4164	0.3921	0.4272	0.3987	0.4300	Ave		0.4036				6.8		35.0			
Methylcyclohexane	0.5194 0.4042	0.4063	0.4049	0.3650	0.4273	Ave		0.4212				12.0		35.0			
1,2-Dichloropropane	0.2750 0.3175	0.3076	0.3209	0.3047	0.3256	Ave		0.3086				5.9		35.0			
Dibromomethane	0.2571 0.2881	0.2585	0.2853	0.2756	0.2904	Ave		0.2758				5.4		35.0			
Dichlorobromomethane	0.3550 0.4754	0.3673	0.4466	0.4338	0.4687	Ave		0.4245				12.0		35.0			
2-Chloroethyl vinyl ether	0.1659 0.2281	0.1711	0.2260	0.2168	0.2324	Ave		0.2067				15.0		35.0			
cis-1,3-Dichloropropene	0.4715 0.5597	0.4815	0.5267	0.5228	0.5621	Ave		0.5207				7.3		35.0			
4-Methyl-2-pentanone (MIBK)	0.2681 0.2673	0.2444	0.2779	0.2515	0.2760	Ave		0.2642				5.1		35.0			
Toluene	1.9645 1.8332	1.8057	1.9984	1.9594	2.0038	Ave		1.9275				4.5		35.0			
trans-1,3-Dichloropropene	0.4042 0.6228	0.4859	0.5381	0.5637	0.6051	Ave		0.5366				15.0		35.0			
Ethyl methacrylate	0.3975 0.5218	0.3833	0.4848	0.4833	0.5103	Ave		0.4635				13.0		35.0			
1,1,2-Trichloroethane	0.3865 0.4421	0.3998	0.4351	0.4358	0.4451	Ave		0.4241				5.8		35.0			
Tetrachloroethene	0.4169 0.4893	0.4054	0.4596	0.4419	0.4780	Ave		0.4485				7.4		35.0			
1,3-Dichloropropane	0.6396 0.7553	0.7260	0.7558	0.7367	0.7514	Ave		0.7275				6.1		35.0			
2-Hexanone	0.2131 0.2328	0.2014	0.2263	0.2224	0.2304	Ave		0.2211				5.4		35.0			
Chlorodibromomethane	0.3585 0.4808	0.3052	0.4020	0.4132	0.4615	Ave		0.4035				16.0		35.0			
Ethylene Dibromide	0.4917 0.4561	0.4186	0.4506	0.4514	0.4616	Ave		0.4550				5.1		35.0			
Chlorobenzene	1.2712 1.3231	1.2517	1.3651	1.3511	1.3843	Ave		1.3244				4.0		35.0			
1,1,1,2-Tetrachloroethane	0.3997 0.4849	0.3884	0.4186	0.4461	0.4681	Ave		0.4343				8.9		35.0			
Ethylbenzene	0.6109 0.7096	0.6053	0.6658	0.6624	0.7011	Ave		0.6592				6.6		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48906-1 Analy Batch No.: 169262

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 20:49 Calibration End Date: 02/23/2015 22:50 Calibration ID: 26974

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	0.7972 0.8668	0.7835	0.8292	0.8196	0.8668	Ave		0.8272				4.2		35.0			
o-Xylene	0.6750 0.8730	0.7495	0.8183	0.8182	0.8699	Ave		0.8006				9.5		35.0			
Styrene	0.9737 1.3990	1.0307	1.3003	1.3615	1.4284	Ave		1.2489				16.0		35.0			
Bromoform	0.3322	0.2233	0.2540	0.2773	0.3137	Ave		0.2801				16.0		35.0			
Isopropylbenzene	1.7835 1.7287	1.6298	1.8411	1.8319	1.9168	Ave		1.7886				5.6		35.0			
1,1,2,2-Tetrachloroethane	1.2708 1.1083	1.2858	1.2081	1.1953	1.1735	Ave		1.2070				5.4		35.0			
Bromobenzene	1.3703 1.2776	1.3411	1.2689	1.2966	1.3170	Ave		1.3119				3.0		35.0			
1,2,3-Trichloropropane	0.5200 0.4412	0.5154	0.4951	0.4892	0.4771	Ave		0.4897				5.9		35.0			
trans-1,4-Dichloro-2-butene	0.3096	0.3145	0.3121	0.3028	0.3132	Ave		0.3104				1.5		35.0			
N-Propylbenzene	1.0864 1.1309	0.9976	1.1569	1.1074	1.1670	Ave		1.1077				5.6		35.0			
2-Chlorotoluene	1.1252 1.0036	1.0420	1.0721	1.0383	1.0553	Ave		1.0561				3.9		35.0			
1,3,5-Trimethylbenzene	3.5666 3.0297	3.2815	3.2987	3.3139	3.4084	Ave		3.3164				5.3		35.0			
4-Chlorotoluene	1.3131 1.1034	1.1310	1.1233	1.1196	1.1582	Ave		1.1581				6.7		35.0			
tert-Butylbenzene	3.1114 2.7273	3.0710	3.0311	2.9318	3.0574	Ave		2.9883				4.7		35.0			
1,2,4-Trimethylbenzene	3.7294 3.2021	3.4187	3.5130	3.5810	3.5656	Ave		3.5016				5.1		35.0			
sec-Butylbenzene	0.6769 0.9002	0.9727	0.9356	0.8970	0.9339	Ave		0.8860				12.0		35.0			
1,3-Dichlorobenzene	2.4311 2.1511	2.2902	2.2802	2.2221	2.2054	Ave		2.2634				4.3		35.0			
4-Isopropyltoluene	3.4326 3.2912	3.4090	3.5379	3.5708	3.6966	Ave		3.4897				4.1		35.0			
1,4-Dichlorobenzene	2.7195 2.2239	2.3920	2.3838	2.3441	2.3365	Ave		2.4000				7.0		35.0			
n-Butylbenzene	3.1201 2.6657	2.8149	2.8371	2.7460	2.8514	Ave		2.8392				5.4		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-48906-1 Analy Batch No.: 169262

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 20:49 Calibration End Date: 02/23/2015 22:50 Calibration ID: 26974

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	2.3610 2.1428	2.3768	2.2164	2.2219	2.1658	Ave		2.2474				4.4		35.0			
1,2-Dibromo-3-Chloropropane	0.2516	0.2746	0.2544	0.2461	0.2649	Ave		0.2583				4.4		35.0			
1,2,4-Trichlorobenzene	1.6323 1.2263	1.4447	1.2427	1.2242	1.2530	Ave		1.3372				13.0		35.0			
Hexachlorobutadiene	1.1640 0.5481	0.7720	0.5601	0.5293	0.5477	Lin1	0.2788	0.5388							1.0000		0.9900
Naphthalene	3.6068 2.8895	3.3727	3.1966	3.1789	3.0925	Ave		3.2228				7.6		35.0			
1,2,3-Trichlorobenzene	1.2570 1.0338	1.3020	1.0674	1.0765	1.0574	Ave		1.1323				10.0		35.0			
1,2-Dichloroethane-d4 (Surr)	0.3780	0.4196	0.3978	0.3581	0.3776	Ave		0.3862				6.0		35.0			
Toluene-d8 (Surr)	1.6104	1.5447	1.7532	1.6722	1.7276	Ave		1.6616				5.1		35.0			
4-Bromofluorobenzene (Surr)	0.6262	0.5944	0.6119	0.6184	0.6247	Ave		0.6151				2.1		35.0			

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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48906-1 Analy Batch No.: 169262

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 20:49 Calibration End Date: 02/23/2015 22:50 Calibration ID: 26974

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-169262/8	UX948659.D
Level 2	STD8260 240-169262/9	UX948660.D
Level 3	STD8260 240-169262/10	UX948661.D
Level 4	STD8260 240-169262/11	UX948662.D
Level 5	STD8260 240-169262/12	UX948663.D
Level 6	STD8260 240-169262/13	UX948664.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	10645 1574772	22163	232370	495599	568038	0.500 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	11290 1808291	19837	216736	451215	917752	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	10275 1959114	24022	237660	491659	911848	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	8174 1627425	16552	174885	381174	759044	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	4988 1511516	15154	176499	354844	727263	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	18332 3383807	32697	391356	830419	1638509	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	15068 2587190	27931	330645	698065	1010746	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl ether	FB	Ave	8521 1384350	14558	153742	303355	657554	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	 277093	3452	29889	64914	137586	 400	5.00	50.0	100	200
1,1-Dichloroethene	FB	Ave	14364 2883595	29062	332813	635615	1397284	0.500 80.0	1.00	10.0	20.0	40.0
Acetone	FB	Lin1	 854691	23045	109092	216820	432362	 160	2.00	20.0	40.0	80.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	8558 1680762	14992	180814	357247	810469	0.500 80.0	1.00	10.0	20.0	40.0
Iodomethane	FB	Ave	15251 3203760	28535	347653	699170	1490405	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	25051 5897089	54465	698069	1070505	3072134	0.500 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	31173 5397036	66430	632685	1253229	2661113	2.50 400	5.00	50.0	100	200
Methylene Chloride	FB	Ave	 2214556	38172	260159	501332	1015996	 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48906-1 Analy Batch No.: 169262

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 20:49 Calibration End Date: 02/23/2015 22:50 Calibration ID: 26974

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methyl-2-propanol	FB	Ave	6481 1428810	15357	172606	346367	728709	5.00 800	10.0	100	200	400
Acrylonitrile	FB	Ave	24948 5643424	59698	658833	1292396	2749801	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	25659 5408865	51998	572390	1190091	2578057	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	9905 2310671	20852	244851	482183	1072810	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	7792 1291195	14866	138412	263091	640062	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	11547 2779391	24552	291623	579496	1305038	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	 1297818	12000	135286	274642	594773	 76.8	0.960	9.60	19.2	38.4
cis-1,2-Dichloroethene	FB	Ave	11195 2205535	21169	237144	484020	1064759	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	9004 1160577	14850	139124	263464	558478	1.00 160	2.00	20.0	40.0	80.0
2,2-Dichloropropane	FB	Ave	5415 1188032	13185	125846	266190	587003	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	5930 1217384	13706	129227	263597	580741	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	13232 2957802	28626	331909	652669	1427167	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	6795 2121326	17903	224872	463264	1046655	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	9999 1915757	18448	213351	437052	1032651	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	10108 2050118	20236	229775	426995	986416	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	6257 1721662	13283	169860	340583	816219	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	4719 970991	9852	104146	185630	451710	12.5 2000	25.0	250	500	1000
Benzene	FB	Ave	34692 6772764	67148	781972	1540954	3435005	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	12335 2243756	21910	248634	493165	1076699	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	8838 2026834	19937	224922	440611	986869	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	12856 1967346	20660	213194	403371	980707	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48906-1 Analy Batch No.: 169262

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 20:49 Calibration End Date: 02/23/2015 22:50 Calibration ID: 26974

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	6807 1545293	15642	168935	336791	747284	0.500 80.0	1.00	10.0	20.0	40.0
Dibromomethane	FB	Ave	6364 1402357	13147	150239	304578	666385	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	8787 2314061	18680	235125	479442	1075716	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	8210 2220301	17404	237933	479302	1066803	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	11670 2723998	24487	277328	577848	1290000	0.500 80.0	1.00	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	13269 2602404	24859	292592	555908	1266740	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	40083 7169038	75572	876208	1736683	3786762	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	8247 2435340	20335	235940	499622	1143479	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl methacrylate	CBZ	Ave	8110 2040639	16040	212548	428363	964427	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	7887 1728931	16734	190768	386249	841174	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	8507 1913292	16965	201526	391667	903404	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	13050 2953492	30383	331386	653002	1420013	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	8697 1820535	16854	198488	394259	870669	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	7314 1880235	12773	176250	366212	872046	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	10032 1783783	17520	197584	400106	872266	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	25938 5174005	52386	598556	1197522	2616028	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	8156 1896067	16253	183541	395388	884642	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	12465 2775046	25334	291946	587096	1324966	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	16265 3389727	32791	363590	726419	1638008	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	13773 3413825	31367	358803	725169	1643884	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	19867 5470807	43137	570136	1206749	2699291	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48906-1 Analy Batch No.: 169262

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 20:49 Calibration End Date: 02/23/2015 22:50 Calibration ID: 26974

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	1299220	9347	111352	245755	592898	80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	36391 6760311	68207	807230	1623678	3622400	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	10706 2169533	22292	243060	505957	1069572	0.500 80.0	1.00	10.0	20.0	40.0
Bromobenzene	DCB	Ave	11545 2500929	23250	255278	548823	1200330	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichloropropane	DCB	Ave	4381 863653	8935	99611	207051	434807	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	606030	5453	62787	128182	285415	80.0	1.00	10.0	20.0	40.0
N-Propylbenzene	DCB	Ave	9153 2213772	17295	232754	468721	1063682	0.500 80.0	1.00	10.0	20.0	40.0
2-Chlorotoluene	DCB	Ave	9480 1964522	18064	215684	439484	961860	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	30048 5930737	56890	663655	1402685	3106492	0.500 80.0	1.00	10.0	20.0	40.0
4-Chlorotoluene	DCB	Ave	11063 2159995	19607	225985	473922	1055592	0.500 80.0	1.00	10.0	20.0	40.0
tert-Butylbenzene	DCB	Ave	26213 5338668	53241	609811	1240977	2786650	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	31420 6268151	59269	706775	1515780	3249799	0.500 80.0	1.00	10.0	20.0	40.0
sec-Butylbenzene	DCB	Ave	5703 1762155	16863	188229	379671	851210	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	20482 4210791	39705	458754	940576	2010032	0.500 80.0	1.00	10.0	20.0	40.0
4-Isopropyltoluene	DCB	Ave	28919 6442485	59101	711776	1511447	3369230	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dichlorobenzene	DCB	Ave	22912 4353259	41470	479585	992218	2129597	0.500 80.0	1.00	10.0	20.0	40.0
n-Butylbenzene	DCB	Ave	26287 5218105	48801	570780	1162327	2598862	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	19891 4194588	41205	445903	940492	1973948	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	492438	4760	51175	104175	241429	80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	13752 2400541	25047	250011	518190	1142043	0.500 80.0	1.00	10.0	20.0	40.0
Hexachlorobutadiene	DCB	Lin1	9807 1072943	13384	112684	224043	499219	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI

GC/MS VOA INITIAL CALIBRATION DATA

INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-48906-1 Analy Batch No.: 169262

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/23/2015 20:49 Calibration End Date: 02/23/2015 22:50 Calibration ID: 26974

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Naphthalene	DCB	Ave	30387 5656221	58472	643117	1345550	2818614	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCB	Ave	10590 2023671	22572	214738	455664	963743	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	1840042	21336	209441	395839	866501	80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	6297713	64646	768713	1482116	3264732	80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	2448788	24878	268287	548146	1180605	80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Instrument ID: A3UX9 Start Date: 02/23/2015 18:23

Analysis Batch Number: 169262 End Date: 02/23/2015 22:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-169262/1		02/23/2015 18:23	1	BFB2934.D	DB-624 0.18(mm)
STD8260 240-169262/8 IC		02/23/2015 20:49	1	UX948659.D	DB-624 0.18(mm)
STD8260 240-169262/9 IC		02/23/2015 21:13	1	UX948660.D	DB-624 0.18(mm)
STD8260 240-169262/10 IC		02/23/2015 21:37	1	UX948661.D	DB-624 0.18(mm)
STD8260 240-169262/11 ICIS		02/23/2015 22:01	1	UX948662.D	DB-624 0.18(mm)
STD8260 240-169262/12 IC		02/23/2015 22:26	1	UX948663.D	DB-624 0.18(mm)
STD8260 240-169262/13 IC		02/23/2015 22:50	1	UX948664.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Instrument ID: A3UX9 Start Date: 04/03/2015 19:33

Analysis Batch Number: 175075 End Date: 04/04/2015 11:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		04/03/2015 19:33	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 04:17	25		DB-624 0.18(mm)
ZZZZZ		04/04/2015 04:41	2.5		DB-624 0.18(mm)
ZZZZZ		04/04/2015 05:05	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 05:29	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 05:53	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 06:17	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 06:41	10		DB-624 0.18(mm)
ZZZZZ		04/04/2015 07:05	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 07:30	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 07:54	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 08:18	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 08:42	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 09:05	1		DB-624 0.18(mm)
240-48906-2	TB-040215	04/04/2015 09:54	1	UX949283.D	DB-624 0.18(mm)
ZZZZZ		04/04/2015 10:18	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 10:42	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 11:06	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 11:30	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 11:54	1		DB-624 0.18(mm)

624_LL_UP

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DCA #	BFB #
DSP-3-040215	240-48906-1	89	82
	MB 240-175075/9	92	85
	LCS 240-175075/5	85	89
	240-48936-C-2 MS	89	89

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Lab File ID: UX949246.D Lab Sample ID: MB 240-175075/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX9 Date Analyzed: 04/03/2015 19:10

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 240-175075/5	UX949241.D	04/03/2015 17:12
DSP-3-040215	240-48906-1	UX949282.D	04/04/2015 09:29
TB-040215	240-48906-2	UX949283.D	04/04/2015 09:54
	240-48936-C-2 MS	UX949289.D	04/04/2015 12:18

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Lab File ID: BFB2958.D BFB Injection Date: 04/03/2015

Instrument ID: A3UX9 BFB Injection Time: 16:16

Analysis Batch No.: 175075

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.8	
75	30.0 - 60.0 % of mass 95	46.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.3	(0.3)1
174	50.0 - 120.00 % of mass 95	96.0	
175	5.0 - 9.0 % of mass 174	6.8	(7.1)1
176	95.0 - 101.0 % of mass 174	92.7	(96.5)1
177	5.0 - 9.0 % of mass 176	6.5	(7.0)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 240-175075/3	UX949240.D	04/03/2015	16:48
	LCS 240-175075/5	UX949241.D	04/03/2015	17:12
	CCV 240-175075/4	UX949242.D	04/03/2015	17:36
	MB 240-175075/9	UX949246.D	04/03/2015	19:10
DSP-3-040215	240-48906-1	UX949282.D	04/04/2015	09:29
	240-48936-C-2 MS	UX949289.D	04/04/2015	12:18

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Sample No.: CCVIS 240-175075/3 Date Analyzed: 04/03/2015 16:48

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX949240.D Heated Purge: (Y/N) N

Calibration ID: 26974

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1223043	5.57	1036598	8.32	505406	10.58
UPPER LIMIT		2446086	6.07	2073196	8.82	1010812	11.08
LOWER LIMIT		611522	5.07	518299	7.82	252703	10.08
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-175075/5		1266522	5.57	1054007	8.32	501567	10.58
CCV 240-175075/4		1280884	5.57	1071333	8.32	504499	10.58
MB 240-175075/9		1171760	5.57	1006747	8.32	453752	10.58
240-48906-1	DSP-3-040215	1243072	5.57	1071022	8.33	493576	10.59
240-48906-2	TB-040215	1196260	5.57	1028907	8.33	475919	10.59
240-48936-C-2 MS		1223514	5.57	1012868	8.33	497463	10.59

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48906-1

SDG No.:

Client Sample ID: DSP-3-040215 | Lab Sample ID: 240-48906-1

Matrix: Water | Lab File ID: UX949282.D

Analysis Method: 624 | Date Collected: 04/02/2015 10:00

Sample wt/vol: 5(mL) | Date Analyzed: 04/04/2015 09:29

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.: 175075 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U *	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Client Sample ID: DSP-3-040215 Lab Sample ID: 240-48906-1

Matrix: Water Lab File ID: UX949282.D

Analysis Method: 624 Date Collected: 04/02/2015 10:00

Sample wt/vol: 5(mL) Date Analyzed: 04/04/2015 09:29

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.: 175075 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		80-125
460-00-4	4-Bromofluorobenzene (Surr)	82		80-120

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Lab Sample ID: CCVIS 240-175075/3 Calibration Date: 04/03/2015 16:48

Instrument ID: A3UX9 Calib Start Date: 08/14/2014 17:24

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/14/2014 19:20

Lab File ID: UX949240.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
sec-Butylbenzene	Ave	3.710	0.8114		0.0183	0.0200	-78.1	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Lab Sample ID: CCVIS 240-175075/3 Calibration Date: 04/03/2015 16:48

Instrument ID: A3UX9 Calib Start Date: 02/23/2015 20:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/23/2015 22:50

Lab File ID: UX949240.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	0.3878	0.3981		0.0205	0.0200	2.7	
Chloromethane	Ave	0.4063	0.4634		0.0228	0.0200	14.1	99.0
Vinyl chloride	Ave	0.4306	0.4925		0.0229	0.0200	14.4	96.0
Bromomethane	Ave	0.3330	0.2979		0.0179	0.0200	-10.5	86.0
Chloroethane	Ave	0.2972	0.3362		0.0226	0.0200	13.1	62.0
Dichlorofluoromethane	Ave	0.7146	0.7581		0.0212	0.0200	6.1	
Trichlorofluoromethane	Ave	0.5649	0.6071		0.0215	0.0200	7.5	52.0
Ethyl ether	Ave	0.2947	0.2916		0.0198	0.0200	-1.1	
Acrolein	Ave	0.0120	0.0417		0.347	0.100	247.1	
1,1-Dichloroethene	Ave	0.5934	0.6313		0.0213	0.0200	6.4	49.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.3343	0.3520		0.0211	0.0200	5.3	
Acetone	Lin1		0.1148		0.0489	0.0400	22.2	
Iodomethane	Ave	0.6296	0.5817		0.0185	0.0200	-7.6	
Carbon disulfide	Ave	1.155	1.333		0.0231	0.0200	15.4	
Methyl acetate	Ave	0.2390	0.2413		0.101	0.100	1.0	
Methylene Chloride	Ave	0.5192	0.4814		0.0185	0.0200	-7.3	39.0
2-Methyl-2-propanol	Ave	0.0303	0.0296		0.196	0.200	-2.1	
Acrylonitrile	Ave	0.1160	0.1267		0.218	0.200	9.2	
Methyl tert-butyl ether	Ave	1.076	1.099		0.0204	0.0200	2.1	
trans-1,2-Dichloroethene	Ave	0.4423	0.4952		0.0224	0.0200	12.0	30.0
Hexane	Ave	0.2754	0.2854		0.0207	0.0200	3.6	
1,1-Dichloroethane	Ave	0.5279	0.6025		0.0228	0.0200	14.1	27.0
Vinyl acetate	Ave	0.2640	0.2587		0.0188	0.0192	-2.0	
cis-1,2-Dichloroethene	Ave	0.4457	0.4903		0.0220	0.0200	10.0	
2,2-Dichloropropane	Ave	0.2430	0.2425		0.0200	0.0200	-0.2	
2-Butanone (MEK)	Ave	0.1367	0.1622		0.0475	0.0400	18.7	
Chlorobromomethane	Ave	0.2494	0.2740		0.0220	0.0200	9.9	
Chloroform	Ave	0.5913	0.6237		0.0211	0.0200	5.5	33.0
1,1,1-Trichloroethane	Ave	0.3941	0.3952		0.0201	0.0200	0.3	25.0
Cyclohexane	Ave	0.4018	0.3323		0.0165	0.0200	-17.3	
1,1-Dichloropropene	Ave	0.4134	0.4451		0.0215	0.0200	7.7	
Carbon tetrachloride	Ave	0.3090	0.3435		0.0222	0.0200	11.1	27.0
Isobutyl alcohol	Ave	0.0076	0.0080		0.524	0.500	4.8	
Benzene	Ave	1.415	1.535		0.0217	0.0200	8.5	36.0
1,2-Dichloroethane	Ave	0.4630	0.4734		0.0205	0.0200	2.3	32.0
Trichloroethene	Ave	0.4036	0.4309		0.0214	0.0200	6.8	33.0
Methylcyclohexane	Ave	0.4212	0.3965		0.0188	0.0200	-5.9	
1,2-Dichloropropane	Ave	0.3086	0.3451		0.0224	0.0200	11.9	66.0
Dibromomethane	Ave	0.2758	0.2876		0.0209	0.0200	4.3	
Dichlorobromomethane	Ave	0.4245	0.4909		0.0231	0.0200	15.6	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Lab Sample ID: CCVIS 240-175075/3 Calibration Date: 04/03/2015 16:48

Instrument ID: A3UX9 Calib Start Date: 02/23/2015 20:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/23/2015 22:50

Lab File ID: UX949240.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	0.2067	0.2362		0.0457	0.0400	14.3	99.0
cis-1,3-Dichloropropene	Ave	0.5207	0.5727		0.0220	0.0200	10.0	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2642	0.2804		0.0425	0.0400	6.1	
Toluene	Ave	1.928	1.986		0.0206	0.0200	3.0	26.0
trans-1,3-Dichloropropene	Ave	0.5366	0.5828		0.0217	0.0200	8.6	50.0
Ethyl methacrylate	Ave	0.4635	0.4636		0.0200	0.0200	0.0	
1,1,2-Trichloroethane	Ave	0.4241	0.4255		0.0201	0.0200	0.3	29.0
Tetrachloroethene	Ave	0.4485	0.4791		0.0214	0.0200	6.8	26.0
1,3-Dichloropropane	Ave	0.7275	0.7544		0.0207	0.0200	3.7	
2-Hexanone	Ave	0.2211	0.2446		0.0443	0.0400	10.6	
Chlorodibromomethane	Ave	0.4035	0.4432		0.0220	0.0200	9.8	33.0
Ethylene Dibromide	Ave	0.4550	0.4260		0.0187	0.0200	-6.4	
Chlorobenzene	Ave	1.324	1.360		0.0205	0.0200	2.7	34.0
1,1,1,2-Tetrachloroethane	Ave	0.4343	0.4426		0.0204	0.0200	1.9	
Ethylbenzene	Ave	0.6592	0.6841		0.0208	0.0200	3.8	41.0
m-Xylene & p-Xylene	Ave	0.8272	0.8368		0.0202	0.0200	1.2	
o-Xylene	Ave	0.8006	0.8305		0.0207	0.0200	3.7	
Styrene	Ave	1.249	1.382		0.0221	0.0200	10.7	
Bromoform	Ave	0.2801	0.2964		0.0212	0.0200	5.8	29.0
Isopropylbenzene	Ave	1.789	1.862		0.0208	0.0200	4.1	
1,1,2,2-Tetrachloroethane	Ave	1.207	1.105		0.0183	0.0200	-8.4	39.0
Bromobenzene	Ave	1.312	1.241		0.0189	0.0200	-5.4	
1,2,3-Trichloropropane	Ave	0.4897	0.4175		0.0171	0.0200	-14.7	
trans-1,4-Dichloro-2-butene	Ave	0.3104	0.2923		0.0188	0.0200	-5.8	
N-Propylbenzene	Ave	1.108	1.072		0.0194	0.0200	-3.2	
2-Chlorotoluene	Ave	1.056	0.995		0.0188	0.0200	-5.8	
1,3,5-Trimethylbenzene	Ave	3.316	3.101		0.0187	0.0200	-6.5	
4-Chlorotoluene	Ave	1.158	1.068		0.0184	0.0200	-7.8	
tert-Butylbenzene	Ave	2.988	2.651		0.0177	0.0200	-11.3	
1,2,4-Trimethylbenzene	Ave	3.502	3.277		0.0187	0.0200	-6.4	
1,3-Dichlorobenzene	Ave	2.263	2.065		0.0182	0.0200	-8.8	27.0
4-Isopropyltoluene	Ave	3.490	3.347		0.0192	0.0200	-4.1	
1,4-Dichlorobenzene	Ave	2.400	2.172		0.0181	0.0200	-9.5	37.0
n-Butylbenzene	Ave	2.839	2.535		0.0179	0.0200	-10.7	
1,2-Dichlorobenzene	Ave	2.247	2.051		0.0183	0.0200	-8.7	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.2583	0.2455		0.0190	0.0200	-5.0	
1,2,4-Trichlorobenzene	Ave	1.337	1.192		0.0178	0.0200	-10.9	
Hexachlorobutadiene	Lin1		0.5369		0.0194	0.0200	-2.9	
Naphthalene	Ave	3.223	2.923		0.0181	0.0200	-9.3	
1,2,3-Trichlorobenzene	Ave	1.132	0.9842		0.0174	0.0200	-13.1	
1,2-Dichloroethane-d4 (Surr)	Ave	0.3862	0.3370		0.0135	0.0154	-12.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Lab Sample ID: CCVIS 240-175075/3 Calibration Date: 04/03/2015 16:48

Instrument ID: A3UX9 Calib Start Date: 02/23/2015 20:49

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 02/23/2015 22:50

Lab File ID: UX949240.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
Toluene-d8 (Surr)	Ave	1.662	1.554		0.0144	0.0154	-6.5	
4-Bromofluorobenzene (Surr)	Ave	0.6151	0.5485		0.0137	0.0154	-10.8	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48906-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-175075/9

Matrix: Water | Lab File ID: UX949246.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 04/03/2015 19:10

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.: 175075 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-175075/9

Matrix: Water Lab File ID: UX949246.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/03/2015 19:10

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.: 175075 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		80-125
460-00-4	4-Bromofluorobenzene (Surr)	85		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-175075/5

Matrix: Water Lab File ID: UX949241.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/03/2015 17:12

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.: 175075 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.3		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	18.5		1.0	0.22
79-00-5	1,1,2-Trichloroethane	20.0		1.0	0.24
75-34-3	1,1-Dichloroethane	23.5		1.0	0.30
75-35-4	1,1-Dichloroethene	21.7		1.0	0.45
95-50-1	1,2-Dichlorobenzene	18.9		1.0	0.25
107-06-2	1,2-Dichloroethane	20.8		1.0	0.23
78-87-5	1,2-Dichloropropane	22.1		1.0	0.25
541-73-1	1,3-Dichlorobenzene	18.7		1.0	0.19
106-46-7	1,4-Dichlorobenzene	18.7		1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	26.6		2.0	0.59
107-02-8	Acrolein	361		20	4.5
107-13-1	Acrylonitrile	221		20	6.3
71-43-2	Benzene	22.1		1.0	0.35
75-25-2	Bromoform	20.1		1.0	0.56
74-83-9	Bromomethane	17.5		2.0	0.44
56-23-5	Carbon tetrachloride	22.5		1.0	0.43
108-90-7	Chlorobenzene	21.0		1.0	0.25
124-48-1	Chlorodibromomethane	21.9		1.0	0.43
75-00-3	Chloroethane	21.1		2.0	0.32
67-66-3	Chloroform	20.8		1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	22.5		1.0	0.46
75-27-4	Dichlorobromomethane	22.2		1.0	0.29
100-41-4	Ethylbenzene	20.7		1.0	0.25
75-09-2	Methylene Chloride	18.9		2.0	0.33
127-18-4	Tetrachloroethene	21.5		1.0	0.31
108-88-3	Toluene	21.0		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	23.4		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	23.3		1.0	0.56
79-01-6	Trichloroethene	21.8		1.0	0.22
75-69-4	Trichlorofluoromethane	21.1		2.0	0.49
75-01-4	Vinyl chloride	21.1		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-175075/5

Matrix: Water Lab File ID: UX949241.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 04/03/2015 17:12

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.: 175075 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		80-125
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-48906-1

SDG No.:

Client Sample ID: | Lab Sample ID: 240-48936-C-2 MS

Matrix: Water | Lab File ID: UX949289.D

Analysis Method: 624 | Date Collected: 03/31/2015 13:00

Sample wt/vol: 1(mL) | Date Analyzed: 04/04/2015 12:18

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.: 175075 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	87.0		5.0	2.2
79-34-5	1,1,2,2-Tetrachloroethane	86.4		5.0	1.1
79-00-5	1,1,2-Trichloroethane	97.8		5.0	1.2
75-34-3	1,1-Dichloroethane	115		5.0	1.5
75-35-4	1,1-Dichloroethene	98.7		5.0	2.3
107-06-2	1,2-Dichloroethane	99.1		5.0	1.2
78-87-5	1,2-Dichloropropane	108		5.0	1.3
110-75-8	2-Chloroethyl vinyl ether	3.0	U	10	3.0
107-02-8	Acrolein	1610		100	23
107-13-1	Acrylonitrile	1090		100	32
71-43-2	Benzene	103		5.0	1.8
75-25-2	Bromoform	80.0		5.0	2.8
74-83-9	Bromomethane	82.9		10	2.2
56-23-5	Carbon tetrachloride	83.8		5.0	2.2
108-90-7	Chlorobenzene	92.0		5.0	1.3
124-48-1	Chlorodibromomethane	94.5		5.0	2.2
75-00-3	Chloroethane	99.7		10	1.6
67-66-3	Chloroform	101		5.0	1.3
10061-01-5	cis-1,3-Dichloropropene	91.3		5.0	2.3
75-27-4	Dichlorobromomethane	100		5.0	1.5
100-41-4	Ethylbenzene	84.7		5.0	1.3
75-09-2	Methylene Chloride	100		10	1.7
127-18-4	Tetrachloroethene	87.5		5.0	1.6
108-88-3	Toluene	92.5		5.0	1.2
156-60-5	trans-1,2-Dichloroethene	107		2.5	1.5
10061-02-6	trans-1,3-Dichloropropene	100		5.0	2.8
79-01-6	Trichloroethene	94.0		5.0	1.1
75-01-4	Vinyl chloride	98.6		10	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		80-125
460-00-4	4-Bromofluorobenzene (Surr)	89		80-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Instrument ID: A3UX9 Start Date: 04/03/2015 16:16

Analysis Batch Number: 175075 End Date: 04/04/2015 12:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-175075/1		04/03/2015 16:16	1	BFB2958.D	DB-624 0.18(mm)
CCVIS 240-175075/3		04/03/2015 16:48	1	UX949240.D	DB-624 0.18(mm)
LCS 240-175075/5		04/03/2015 17:12	1	UX949241.D	DB-624 0.18(mm)
CCV 240-175075/4		04/03/2015 17:36	1	UX949242.D	DB-624 0.18(mm)
MB 240-175075/9		04/03/2015 19:10	1	UX949246.D	DB-624 0.18(mm)
ZZZZZ		04/03/2015 19:33	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 04:17	25		DB-624 0.18(mm)
ZZZZZ		04/04/2015 04:41	2.5		DB-624 0.18(mm)
ZZZZZ		04/04/2015 05:05	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 05:29	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 05:53	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 06:17	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 06:41	10		DB-624 0.18(mm)
ZZZZZ		04/04/2015 07:05	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 07:30	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 07:54	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 08:18	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 08:42	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 09:05	1		DB-624 0.18(mm)
240-48906-1	DSP-3-040215	04/04/2015 09:29	1	UX949282.D	DB-624 0.18(mm)
ZZZZZ		04/04/2015 10:18	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 10:42	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 11:06	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 11:30	1		DB-624 0.18(mm)
ZZZZZ		04/04/2015 11:54	1		DB-624 0.18(mm)
240-48936-C-2 MS		04/04/2015 12:18	1	UX949289.D	DB-624 0.18(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-48906-1

SDG No.:

Project: LM MRC Block E MPE, MD

Client Sample ID	Lab Sample ID
DSP-3-040215	240-48906-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DSP-3-040215 Lab Sample ID: 240-48906-1

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG ID.:

Matrix: Water Date Sampled: 04/02/2015 10:00

Reporting Basis: WET Date Received: 04/03/2015 08:05

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	pH	6.73	0.100	0.100	SU		HF	1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Analyst: SEM Batch Start Date: 04/03/2015

Reporting Units: SU Analytical Batch No.: 174978

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	09:00	pH	7.050	7.00	101	99-101		WCPH7_00073
7	CCV	11:10	pH	7.050	7.00	101	99-101		WCPH7_00073

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

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 174978 Date: 04/03/2015 09:44								
4500 H+ B-2000	DSP-3-040215	240-48906-1	pH	6.73	SU			
4500 H+ B-2000	DSP-3-040215	240-48906-1 DU	pH	6.630	SU	1	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 174978	Date: 04/03/2015 09:22										
						LCS Source: WCPHLCS_00010					
4500 H+ B-2000	LCS 240-174978/2	pH	6.210		SU	6.15	101	97-103			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-48906-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-48906-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 04/03/2015 09:00 End Date: 04/03/2015 16:14

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-174978/1	1		09:00	X																			
LCS 240-174978/2	1	T	09:22	X																			
240-48906-1 DU	1	T	09:44	X																			
240-48906-1	1	T	10:05	X																			
CCV 240-174978/7	1		11:10	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Batch Number: 174978 Batch Start Date: 04/03/15 09:00 Batch Analyst: Matheny, Sarah

Batch Method: 4500 H+ B-2000 Batch End Date: 04/03/15 16:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-174978/1		4500 H+ B-2000		10 mL	7.05 SU	19.9 Celsius			pH = Read 1
LCS 240-174978/2		4500 H+ B-2000		10 mL	6.21 SU	20.0 Celsius			pH = Read 1
240-48906-D-1 DU	DSP-3-040215	4500 H+ B-2000	T	10 mL	6.57 SU	12.0 Celsius	6.63 SU	13.5 Celsius	Read 2 Pass
240-48906-D-1	DSP-3-040215	4500 H+ B-2000	T	10 mL	6.73 SU	17.8 Celsius	6.73 SU	18.5 Celsius	Read 2 Pass
CCV 240-174978/7		4500 H+ B-2000		10 mL	7.05 SU	19.6 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00073	WCPHLCS 00010				
CCV 240-174978/1		4500 H+ B-2000		10 mL					
LCS 240-174978/2		4500 H+ B-2000			10 mL				
240-48906-D-1 DU	DSP-3-040215	4500 H+ B-2000	T						
240-48906-D-1	DSP-3-040215	4500 H+ B-2000	T						
CCV 240-174978/7		4500 H+ B-2000		10 mL					

Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1838817
pH Buffer 2 ID	4-1830814
pH Buffer 3 ID	7-1896764
pH Buffer 4 ID	10-1777201
pH Buffer 5 ID	12-1595632
Calibration Date and Time	04/03/15; 9:06
Electronic Slope	100.5
Instrument ID	Randolph
Probe ID	WCP108
Sufficient volume for sample dup	Y

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-48906-1

SDG No.:

Batch Number: 174978 Batch Start Date: 04/03/15 09:00 Batch Analyst: Matheny, Sarah

Batch Method: 4500 H+ B-2000 Batch End Date: 04/03/15 16:36

Basis	Basis Description
T	Total/NA

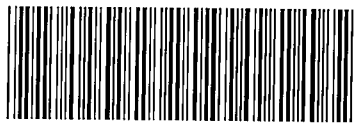
The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-48906 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

Chain of Custody Record

24/c2.9

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
Tetra Tech	Chris Pike	4-2-15	014812
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
20251 Century Blvd Ste 200			
City	**State**	**Zip Code**	**Site Contact**	**Lab Contact**
Germantown	MD	20874	Stu Cameron	John McFadden
Project Name and Location (State)	**Carrier/Waybill Number**
Block E MPE, MD	
Contract/Purchase Order/Quote No.
112I C04770-01

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: VOC's - 8260 HL	Special Instructions/ Conditions of Receipt
DSP-3-040215	4/2/15	1000		X			4			3				
TB-040215	—	—		X						2				

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Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☑ Other 5day

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	4-2-15	1530	1. Received By	4/3/15	0805
2. Relinquished By			2. Received By		
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*

TestAmerica Canton Sample Receipt Form/Narrative Login # : 48906
Canton Facility

Client Tetra Tech Site Name _____ Cooler unpacked by: Jerry Burns

Cooler Received on 4/3/15 Opened on 4/3/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

~~IR GUN# A (CF +4.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. 2.4 °C Corrected Cooler Temp. 2.9 °C ☐ See Multiple Cooler Form

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the sampler(s) clearly identified on the COC? Yes No
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 correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC425511**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # NONE Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ 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 the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

5/7/2015 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-50424-1

Job Description: LM MRC Block E

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
5/13/2015 11:28 AM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
05/13/2015

cc: Samantha Brenner
Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: LM MRC Block E

Report Number: 240-50424-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT
The sample was received on 5/8/2015 9:30 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)
Sample DSP-4-050715 (240-50424-1) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The samples were analyzed on 05/08/2015.

The continuing calibration verification (CCV) associated with batch 180015 recovered above the upper control limit for carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DSP-4-050715 (240-50424-1) and (CCVIS 240-180015/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Sample DSP-4-050715 (240-50424-1) was analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 05/08/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-50424-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-50424-1	DSP-4-050715	Water	05/07/2015 0915	05/08/2015 0930

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-50424-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-50424-1	**DSP-4-050715**					
Ethylbenzene		2.2		1.0	ug/L	624
Toluene		0.89	J	1.0	ug/L	624
pH		6.53	HF	0.100	SU	4500 H+ B-2000

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-50424-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
pH	TAL CAN	SM 4500 H+ B-2000	

Lab References:

TAL CAN = TestAmerica Canton

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-50424-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
SM 4500 H+ B-2000	Woodward, Bruce	BLW

Client: Tetra Tech, Inc. Job Number: 240-50424-1

Client Sample ID: DSP-4-050715

Lab Sample ID: 240-50424-1 Date Sampled: 05/07/2015 0915
Client Matrix: Water Date Received: 05/08/2015 0930

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-180015	Instrument ID:	A3UX9
	N/A	Prep Batch:	N/A	Lab File ID:	UX949937.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	05/08/2015 2019			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	2.2		0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.89	J	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		80 - 125
4-Bromofluorobenzene (Surr)	88		80 - 120

General Chemistry

Client Sample ID: **DSP-4-050715**

Lab Sample ID: 240-50424-1 Date Sampled: 05/07/2015 0915
Client Matrix: Water Date Received: 05/08/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
pH	6.53	HF	SU	0.100	0.100	1.0	4500 H+ B-2000

Analysis Batch: 240-179951 Analysis Date: 05/08/2015 1328

Client: Tetra Tech, Inc. Job Number: 240-50424-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec
240-50424-1	DSP-4-050715	91	88
MB 240-180015/5		91	83
LCS 240-180015/6		88	85
240-50341-C-6 MS		87	87

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	80-120

Client: Tetra Tech, Inc. Job Number: 240-50424-1

Method Blank - Batch: 240-180015

Method: 624
Preparation: N/A

Lab Sample ID:	MB 240-180015/5	Analysis Batch:	240-180015	Instrument ID:	A3UX9
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX949936.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	05/08/2015 1953	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91	80 - 125
4-Bromofluorobenzene (Surr)	83	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	85	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	87	80 - 120

Client: Tetra Tech, Inc. Job Number: 240-50424-1

Lab Control Sample - Batch: 240-179951

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-179951/2	Analysis Batch:	240-179951	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/08/2015 1204	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.15	6.210	101	97 - 103	

Duplicate - Batch: 240-179951

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-50401-R-1 DU	Analysis Batch:	240-179951	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	05/08/2015 1218	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.64	7.680	0.5	20	

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-50424-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Client: Tetra Tech, Inc. Job Number: 240-50424-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-180015					
LCS 240-180015/6	Lab Control Sample	T	Water	624	
MB 240-180015/5	Method Blank	T	Water	624	
240-50341-C-6 MS	Matrix Spike	T	Water	624	
240-50424-1	DSP-4-050715	T	Water	624	

Report Basis
T = Total

General Chemistry					
Analysis Batch:240-179951					
LCS 240-179951/2	Lab Control Sample	T	Water	4500 H+ B-2000	
240-50401-R-1 DU	Duplicate	T	Water	4500 H+ B-2000	
240-50424-1	DSP-4-050715	T	Water	4500 H+ B-2000	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-50424-1

Laboratory Chronicle

Lab ID: 240-50424-1 **Client ID: DSP-4-050715**

Sample Date/Time: 05/07/2015 09:15 Received Date/Time: 05/08/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-50424-C-1		240-180015		05/08/2015 20:19	1	TAL CAN	TJL1
A:4500 H+ B-2000	240-50424-D-1		240-179951		05/08/2015 13:28	1	TAL CAN	BLW

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-180015/5		240-180015		05/08/2015 19:53	1	TAL CAN	TJL1

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-180015/6		240-180015		05/08/2015 19:08	1	TAL CAN	TJL1
A:4500 H+ B-2000	LCS 240-179951/2		240-179951		05/08/2015 12:04	1	TAL CAN	BLW

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 05/05/2015 15:05 Received Date/Time: 05/07/2015 09:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-50341-C-6 MS		240-180015		05/09/2015 04:17	100	TAL CAN	TJL1

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 05/07/2015 10:27 Received Date/Time: 05/08/2015 08:50

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-50401-R-1 DU		240-179951		05/08/2015 12:18	1	TAL CAN	BLW

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_00022	08/12/15	02/12/15	MEOH, Lot 85233	50 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00020	10/22/15	04/22/15	MEOH, Lot 85233	100 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00198	04/24/15	04/17/15	MEOH, Lot na	2 mL	vm50ss_stk_00065	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00097	04/30/15	04/23/15	MEOH, Lot na	3 mL	VMACROLSTD_00024	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00024	04/30/15	03/31/15	MEOH, Lot 0000085233	20 mL	VM568720_00006	0.25 mL	Acrolein	250 ug/mL
..VM568720_00006	05/31/15		restek, Lot A0108734		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00098	05/08/15	05/01/15	MEOH, Lot na	3 mL	VMACROLSTD_00025	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00025	05/31/15	05/01/15	MEOH, Lot 0000085233	20 mL	VM568720_00006	0.25 mL	Acrolein	250 ug/mL
..VM568720_00006	05/31/15		restek, Lot A0108734		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00081	05/09/15	05/02/15	MEOH, Lot NA	2 mL	VMFASA_00017	2 mL	Acrolein	250 ug/mL
.VMFASA_00017	05/31/15	03/31/15	MEOH, Lot 0000085233	100 mL	VM568720S_00006	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00006	05/31/15		restek, Lot A0108733		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00093	05/13/15	05/06/15	MEOH, Lot NA	2 mL	VMFASG_00028	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00028	05/13/15	04/13/15	MEOH, Lot 0000085233	50 mL	VM567645S_00017	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00097	05/13/15	05/06/15	MEOH, Lot n/a	2 mL	VMRFASP_00020	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	60 ug/mL
.VMRFASP_00020	05/31/15	04/11/15	MEOH, Lot 0000085233	100 mL	VM567641S_00007	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643S_00012	3 mL	2-Chloroethyl vinyl ether	60 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643S_00012	07/31/17		Restek, Lot A0104963		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
VMRGAS_00099	04/30/15	04/23/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00100	05/08/15	05/01/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00122	04/27/15	04/20/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	48 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00014	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM567646_00016	0.6 mL	Vinyl acetate	48 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00014	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM567646_00016	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
VMRPRIMW_00124	05/11/15	05/04/15	MEOH, Lot NA	1 mL	VMRPRIM_00010	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00010	05/31/15	12/10/14	MEOH, Lot +161620000085233JB	50 mL	VM567641_00012	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00012	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00020	02/29/16	restek, Lot A093368			(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCPH7_00073	11/03/16	Fisher Scientific, Lot 147660			(Purchased Reagent)		pH	7 SU
WCPHLCS_00010	08/31/16	Phenova, Lot 8137-15			(Purchased Reagent)		pH	6.15 SU

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-50424-1
Project/Site: LM MRC Block E

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	Kentucky (WW)	State Program	4	98016
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Oregon	NELAP	10	4062
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL_UP

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DCA #	BFB #
DSP-4-050715	240-50424-1	91	88
	MB 240-180015/5	91	83
	LCS 240-180015/6	88	85
	240-50341-C-6 MS	87	87

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Lab File ID: UX949936.D Lab Sample ID: MB 240-180015/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX9 Date Analyzed: 05/08/2015 19:53

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 240-180015/6	UX949934.D	05/08/2015 19:08
DSP-4-050715	240-50424-1	UX949937.D	05/08/2015 20:19
	240-50341-C-6 MS	UX949957.D	05/09/2015 04:17

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Lab File ID: BFB2971.D BFB Injection Date: 04/24/2015

Instrument ID: A3UX9 BFB Injection Time: 17:31

Analysis Batch No.: 177929

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	46.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	80.3	
175	5.0 - 9.0 % of mass 174	6.5	(8.1)1
176	95.0 - 101.0 % of mass 174	78.6	(97.9)1
177	5.0 - 9.0 % of mass 176	5.5	(7.0)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 240-177929/6	UX949647.D	04/24/2015	19:12
	STD8260 240-177929/7	UX949648.D	04/24/2015	19:37
	STD8260 240-177929/8	UX949649.D	04/24/2015	20:02
	STD8260 240-177929/9	UX949650.D	04/24/2015	20:27
	STD8260 240-177929/10	UX949651.D	04/24/2015	20:52
	STD8260 240-177929/11	UX949652.D	04/24/2015	21:17

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Lab File ID: BFB2983.D BFB Injection Date: 05/08/2015

Instrument ID: A3UX9 BFB Injection Time: 18:21

Analysis Batch No.: 180015

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.9	
75	30.0 - 60.0 % of mass 95	45.9	
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	(0.6)1
174	50.0 - 120.00 % of mass 95	92.6	
175	5.0 - 9.0 % of mass 174	7.2	(7.8)1
176	95.0 - 101.0 % of mass 174	90.4	(97.6)1
177	5.0 - 9.0 % of mass 176	6.0	(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 240-180015/3	UX949933.D	05/08/2015	18:44
	LCS 240-180015/6	UX949934.D	05/08/2015	19:08
	CCV 240-180015/4	UX949935.D	05/08/2015	19:31
	MB 240-180015/5	UX949936.D	05/08/2015	19:53
DSP-4-050715	240-50424-1	UX949937.D	05/08/2015	20:19
	240-50341-C-6 MS	UX949957.D	05/09/2015	04:17

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Sample No.: STD8260 240-177929/9 Date Analyzed: 04/24/2015 20:27

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX949650.D Heated Purge: (Y/N) N

Calibration ID: 28186

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		925598	5.40	751059	8.08	378852	10.33
UPPER LIMIT		1851196	5.90	1502118	8.58	757704	10.83
LOWER LIMIT		462799	4.90	375530	7.58	189426	9.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 240-180015/3		732766	5.41	612947	8.08	315195	10.32

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 624

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Sample No.: CCVIS 240-180015/3 Date Analyzed: 05/08/2015 18:44

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX949933.D Heated Purge: (Y/N) N

Calibration ID: 28189

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		732766	5.41	612947	8.08	315195	10.32
UPPER LIMIT		1465532	5.91	1225894	8.58	630390	10.82
LOWER LIMIT		366383	4.91	306474	7.58	157598	9.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-180015/6		764105	5.42	637141	8.08	324599	10.33
CCV 240-180015/4		738450	5.42	609812	8.08	308085	10.33
MB 240-180015/5		730368	5.41	614302	8.08	297479	10.32
240-50424-1	DSP-4-050715	729374	5.41	599585	8.08	305609	10.32
240-50341-C-6 MS		723613	5.41	598240	8.08	309263	10.32

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-50424-1

SDG No.:

Client Sample ID: DSP-4-050715 | Lab Sample ID: 240-50424-1

Matrix: Water | Lab File ID: UX949937.D

Analysis Method: 624 | Date Collected: 05/07/2015 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 05/08/2015 20:19

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.: 180015 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	2.2		1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.89	J	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-50424-1

SDG No.:

Client Sample ID: DSP-4-050715 | Lab Sample ID: 240-50424-1

Matrix: Water | Lab File ID: UX949937.D

Analysis Method: 624 | Date Collected: 05/07/2015 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 05/08/2015 20:19

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.: 180015 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		80-125
460-00-4	4-Bromofluorobenzene (Surr)	88		80-120

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-50424-1 Analy Batch No.: 177929

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2015 19:12 Calibration End Date: 04/24/2015 21:17 Calibration ID: 28186

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-177929/6	UX949647.D
Level 2	STD8260 240-177929/7	UX949648.D
Level 3	STD8260 240-177929/8	UX949649.D
Level 4	STD8260 240-177929/9	UX949650.D
Level 5	STD8260 240-177929/10	UX949651.D
Level 6	STD8260 240-177929/11	UX949652.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	0.5549 0.2887	0.4047	0.4426	0.4141	0.3951	Ave		0.4167				20.6		35.0			
Chloromethane	0.6071 0.4730	0.5792	0.5002	0.4931	0.4686	Ave		0.5202				11.2		35.0			
Vinyl chloride	0.4753 0.5301	0.4589	0.5385	0.5285	0.5067	Ave		0.5063				6.4		35.0			
Bromomethane	0.4147 0.3309	0.3904	0.3437	0.3223	0.3104	Ave		0.3521				11.7		35.0			
Chloroethane	+++++ 0.3617	0.3235	0.3551	0.3552	0.3494	Ave		0.3490				4.3		35.0			
Dichlorofluoromethane	0.8310 0.7739	0.7641	0.8051	0.7717	0.7550	Ave		0.7835				3.7		35.0			
Trichlorofluoromethane	0.5251 0.5047	0.4111	0.5803	0.5640	0.5358	Ave		0.5202				11.5		35.0			
Acrolein	+++++ 0.0448	0.1161	0.0524	0.0474	0.0447	Lin1	0.3667	0.0437							1.0000		0.9900
Acetone	+++++ 0.0961	0.6842	0.1624	0.1195	0.1033	Lin1	1.2106	0.0894							0.9980		0.9900
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2125 0.2884	0.2082	0.2786	0.2828	0.1805	Ave		0.2418				19.4		35.0			
1,1-Dichloroethene	0.5542 0.6067	0.5642	0.6023	0.6038	0.5238	Ave		0.5758				5.9		35.0			
Carbon disulfide	0.9750 1.2383	1.2540	1.2316	1.2262	1.1500	Ave		1.1792				9.0		35.0			
Methyl acetate	0.4273 0.2469	0.4058	0.2756	0.2570	0.2545	Ave		0.3112				26.5		35.0			
Methylene Chloride	+++++ 0.4612	0.8830	0.5126	0.4799	0.4234	Ave		0.5520				34.0		35.0			
Acrylonitrile	0.1607 0.1298	0.1536	0.1401	0.1315	0.1332	Ave		0.1415				9.1		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-50424-1 Analy Batch No.: 177929

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2015 19:12 Calibration End Date: 04/24/2015 21:17 Calibration ID: 28186

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								
Methyl tert-butyl ether	1.1859 1.1203	1.1147	1.1225	1.0888	1.0977	Ave		1.1216				3.0		35.0			
trans-1,2-Dichloroethene	0.4021 0.4606	0.4762	0.4791	0.4644	0.4625	Ave		0.4575				6.2		35.0			
Hexane	+++++ 0.2687	0.3207	0.2677	0.2636	0.2083	Ave		0.2658				15.0		35.0			
1,1-Dichloroethane	0.5533 0.5817	0.6102	0.6128	0.5927	0.5916	Ave		0.5904				3.7		35.0			
Vinyl acetate	+++++ 0.2971	0.3182	0.3107	0.2888	0.2944	Ave		0.3019				4.0		35.0			
2-Butanone (MEK)	0.2416 0.1424	0.1930	0.1557	0.1477	0.1452	Ave		0.1709				23.0		35.0			
cis-1,2-Dichloroethene	0.4953 0.4777	0.5056	0.4989	0.4822	0.4812	Ave		0.4901				2.3		35.0			
Chlorobromomethane	0.2656 0.2629	0.2997	0.2748	0.2685	0.2675	Ave		0.2732				5.0		35.0			
Chloroform	0.6540 0.5845	0.6449	0.6155	0.5983	0.5923	Ave		0.6149				4.7		35.0			
1,1,1-Trichloroethane	0.5236 0.3939	0.4162	0.3967	0.4003	0.3730	Ave		0.4173				12.9		35.0			
Cyclohexane	+++++ 0.2754	0.2867	0.3052	0.2990	0.1995	Ave		0.2732				15.6		35.0			
1,1-Dichloropropene	0.3910 0.4248	0.3980	0.4214	0.4258	0.3762	Ave		0.4062				5.1		35.0			
Carbon tetrachloride	0.2944 0.3249	0.2622	0.3125	0.3163	0.2738	Ave		0.2974				8.4		35.0			
Isobutyl alcohol	+++++ 0.0129	0.0132	0.0124	0.0123	0.0120	Ave		0.0126				3.8		35.0			
Benzene	1.4843 1.4076	1.4832	1.5019	1.4601	1.4672	Ave		1.4674				2.2		35.0			
1,2-Dichloroethane	0.4509 0.4593	0.4512	0.4694	0.4521	0.4660	Ave		0.4582				1.8		35.0			
Trichloroethene	0.3205 0.3903	0.3806	0.4003	0.3875	0.3734	Ave		0.3754				7.6		35.0			
Methylcyclohexane	0.4474 0.3722	0.4091	0.3462	0.3534	0.3002	Ave		0.3714				13.8		35.0			
1,2-Dichloropropane	0.3434 0.3416	0.3641	0.3541	0.3336	0.3472	Ave		0.3473				3.1		35.0			
Dichlorobromomethane	0.5337 0.5023	0.5919	0.5092	0.4934	0.4962	Ave		0.5211				7.2		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-50424-1 Analy Batch No.: 177929

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2015 19:12 Calibration End Date: 04/24/2015 21:17 Calibration ID: 28186

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								
2-Chloroethyl vinyl ether	0.2455 0.2479	0.2688	0.2596	0.2504	0.2526	Ave		0.2541				3.4		35.0			
cis-1,3-Dichloropropene	0.5969 0.6038	0.5499	0.6132	0.5928	0.6042	Ave		0.5935				3.8		35.0			
4-Methyl-2-pentanone (MIBK)	0.4161 0.3096	0.3776	0.3380	0.3224	0.3150	Ave		0.3465				12.1		35.0			
Toluene	1.9839 1.8273	1.9970	2.0512	1.9626	1.9493	Ave		1.9619				3.8		35.0			
trans-1,3-Dichloropropene	0.5666 0.6611	0.7030	0.7010	0.6518	0.6744	Ave		0.6596				7.6		35.0			
1,1,2-Trichloroethane	0.5078 0.4076	0.4578	0.4355	0.4304	0.4232	Ave		0.4437				8.0		35.0			
1,3-Dichloropropane	0.6862 0.7537	0.7762	0.7914	0.7764	0.7711	Ave		0.7592				5.0		35.0			
Tetrachloroethene	0.3827 0.4361	0.4526	0.4370	0.4273	0.4119	Ave		0.4246				5.8		35.0			
2-Hexanone	+++++ 0.2704	0.3400	0.2866	0.2758	0.2733	Ave		0.2892				10.0		35.0			
Chlorodibromomethane	0.3956 0.4610	0.4021	0.4397	0.4606	0.4723	Ave		0.4385				7.4		35.0			
Ethylene Dibromide	0.4138 0.4235	0.4396	0.4364	0.4357	0.4392	Ave		0.4314				2.4		35.0			
Chlorobenzene	1.1988 1.2857	1.3584	1.3440	1.3275	1.3376	Ave		1.3087				4.5		35.0			
1,1,1,2-Tetrachloroethane	0.4121 0.4656	0.4570	0.4738	0.4693	0.4733	Ave		0.4585				5.1		35.0			
Ethylbenzene	0.6186 0.6788	0.6831	0.6697	0.6757	0.6737	Ave		0.6666				3.6		35.0			
m-Xylene & p-Xylene	0.7771 0.8394	0.8628	0.8288	0.8443	0.8378	Ave		0.8317				3.5		35.0			
o-Xylene	0.7809 0.8422	0.8511	0.8517	0.8423	0.8591	Ave		0.8379				3.4		35.0			
Styrene	1.3435 1.4111	1.4701	1.4746	1.4482	1.4661	Ave		1.4356				3.5		35.0			
Bromoform	+++++ 0.3365	0.2739	0.3152	0.3270	0.3336	Ave		0.3172				8.1		35.0			
Isopropylbenzene	1.8187 1.8004	1.8511	1.9388	1.9380	1.8618	Ave		1.8681				3.1		35.0			
1,1,2,2-Tetrachloroethane	1.8537 1.1445	1.2556	1.2301	1.1887	1.1796	Ave		1.3087				20.6		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-50424-1 Analy Batch No.: 177929

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2015 19:12 Calibration End Date: 04/24/2015 21:17 Calibration ID: 28186

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								
1,3,5-Trimethylbenzene	3.3391 3.0802	3.2061	3.2475	3.2363	3.2670	Ave		3.2294				2.7		35.0			
1,2,4-Trimethylbenzene	3.7693 3.2418	3.7368	3.5007	3.4812	3.5073	Ave		3.5395				5.5		35.0			
1,3-Dichlorobenzene	2.1907 2.0004	2.1923	2.1341	2.1235	2.0856	Ave		2.1211				3.4		35.0			
1,4-Dichlorobenzene	2.3829 2.0794	2.1183	2.2084	2.1775	2.1601	Ave		2.1878				4.8		35.0			
1,2-Dichlorobenzene	2.0098 2.0032	2.1792	2.1414	2.0729	2.1050	Ave		2.0852				3.4		35.0			
1,2,4-Trichlorobenzene	1.4207 1.3193	1.4843	1.4049	1.3557	1.3732	Ave		1.3930				4.1		35.0			
Naphthalene	4.5781 3.6185	4.2392	4.0240	3.9162	3.9685	Ave		4.0574				8.0		35.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3762	0.4256	0.4160	0.3895	0.3746	Ave		0.3964				5.9		35.0			
Toluene-d8 (Surr)	+++++ 1.6123	1.8283	1.7879	1.7279	1.7079	Ave		1.7329				4.8		35.0			
4-Bromofluorobenzene (Surr)	+++++ 0.6323	0.7341	0.6639	0.6528	0.6393	Ave		0.6645				6.1		35.0			

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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-50424-1 Analy Batch No.: 177929

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2015 19:12 Calibration End Date: 04/24/2015 21:17 Calibration ID: 28186

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-177929/6	UX949647.D
Level 2	STD8260 240-177929/7	UX949648.D
Level 3	STD8260 240-177929/8	UX949649.D
Level 4	STD8260 240-177929/9	UX949650.D
Level 5	STD8260 240-177929/10	UX949651.D
Level 6	STD8260 240-177929/11	UX949652.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	13021 1117100	19144	203428	383288	759501	0.500 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	14246 1829786	27402	229895	456373	900704	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	11152 2050818	21710	247491	489173	974025	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	9731 1280371	18469	157937	298335	596572	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	+++++ 1399301	15304	163191	328746	671595	+++++ 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	19499 2994043	36147	370000	714311	1451175	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	12321 1952417	19447	266676	522025	1030000	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Lin1	+++++ 866949	27467	120452	219571	429553	+++++ 400	5.00	50.0	100	200
Acetone	FB	Lin1	+++++ 743653	64739	149299	221242	397183	+++++ 160	2.00	20.0	40.0	80.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	4986 1115733	9848	128034	261754	346967	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethene	FB	Ave	13003 2347222	26693	276821	558836	1006755	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	22878 4790642	59325	566004	1134936	2210519	0.500 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	50134 4775307	95997	633377	1189538	2446386	2.50 400	5.00	50.0	100	200
Methylene Chloride	FB	Ave	+++++ 1784300	41775	235574	444163	813812	+++++ 80.0	1.00	10.0	20.0	40.0
Acrylonitrile	FB	Ave	37696 5022854	72673	643829	1217592	2559931	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	27827 4334102	52735	515882	1007773	2109934	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-50424-1 Analy Batch No.: 177929

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2015 19:12 Calibration End Date: 04/24/2015 21:17 Calibration ID: 28186

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
trans-1,2-Dichloroethene	FB	Ave	9435 1781788	22530	220186	429813	888947	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	+++++ 1039673	15173	123030	244028	400353	+++++ 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	12982 2250531	28869	281631	548638	1137107	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	+++++ 1103605	14453	137099	256625	543215	+++++ 76.8	0.960	9.60	19.2	38.4
2-Butanone (MEK)	FB	Ave	11336 1101459	18257	143069	273471	558306	1.00 160	2.00	20.0	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	11623 1847925	23921	229264	446306	924918	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	6232 1017088	14179	126306	248535	514093	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	15345 2261359	30508	282854	553747	1138602	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	12287 1523836	19691	182305	370548	717026	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	+++++ 1065518	13562	140276	276746	383484	+++++ 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	9174 1643598	18827	193667	394127	723058	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	6908 1257019	12404	143628	292746	526377	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	+++++ 1245884	15628	142675	285415	575920	+++++ 2000	25.0	250	500	1000
Benzene	FB	Ave	34829 5445747	70168	690226	1351494	2820329	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	10580 1777046	21346	215708	418497	895793	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	7520 1510129	18008	183974	358671	717699	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	10498 1439963	19352	159124	327133	577116	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	8058 1321744	17223	162725	308775	667382	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	12523 1943215	28002	234003	456652	953708	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	11521 1917948	25429	238593	463453	971090	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	14005 2335896	26014	281809	548722	1161336	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-50424-1 Analy Batch No.: 177929

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2015 19:12 Calibration End Date: 04/24/2015 21:17 Calibration ID: 28186

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methyl-2-pentanone (MIBK)	FB	Ave	19528 2395360	35723	310665	596912	1211131	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	38382 5832855	75869	768358	1474045	3044259	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	10962 2110297	26707	262577	489510	1053255	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	9824 1301079	17393	163113	323260	660984	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	13275 2405753	29487	296454	583096	1204274	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	7404 1391986	17194	163700	320946	643266	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	+++++ 1726289	25830	214745	414349	853794	+++++ 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	7653 1471416	15275	164690	345939	737655	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	8005 1351737	16699	163485	327252	685930	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	23192 4103945	51608	503449	997012	2088919	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	7973 1486244	17363	177493	352462	739097	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	11967 2166676	25952	250841	507480	1052170	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	15034 2679458	32779	310451	634093	1308419	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	15108 2688359	32334	319038	632588	1341626	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	25992 4504234	55851	552342	1087713	2289690	0.500 80.0	1.00	10.0	20.0	40.0
Bromoform	CBZ	Ave	+++++ 1074267	10404	118072	245604	520921	+++++ 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	35185 5747005	70326	726237	1455543	2907659	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	16231 1847827	22940	224464	450332	901104	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	29237 4973048	58576	592575	1226060	2495622	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	33004 5233919	68273	638775	1318846	2679229	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	19182 3229709	40055	389418	804504	1593142	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-50424-1 Analy Batch No.: 177929

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/24/2015 19:12 Calibration End Date: 04/24/2015 21:17 Calibration ID: 28186

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	20865 3357157	38702	402961	824967	1650104	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	17598 3234159	39814	390746	785317	1608004	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	12440 2130077	27119	256346	513618	1048936	0.500 80.0	1.00	10.0	20.0	40.0
Naphthalene	DCB	Ave	40086 5842173	77452	734261	1483673	3031467	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 1455376	20134	191190	360564	720100	+++++ 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 5146546	69458	669698	1297782	2667328	+++++ 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	+++++ 2018225	27890	248675	490293	998366	+++++ 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Lab Sample ID: CCVIS 240-180015/3 Calibration Date: 05/08/2015 18:44

Instrument ID: A3UX9 Calib Start Date: 04/24/2015 19:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/24/2015 21:17

Lab File ID: UX949933.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	0.4167	0.4062		0.0195	0.0200	-2.5	
Chloromethane	Ave	0.5202	0.4728		0.0182	0.0200	-9.1	99.0
Vinyl chloride	Ave	0.5063	0.5197		0.0205	0.0200	2.6	96.0
Bromomethane	Ave	0.3521	0.3279		0.0186	0.0200	-6.9	86.0
Chloroethane	Ave	0.3490	0.3497		0.0200	0.0200	0.2	62.0
Dichlorofluoromethane	Ave	0.7835	0.7943		0.0203	0.0200	1.4	
Trichlorofluoromethane	Ave	0.5202	0.6207		0.0239	0.0200	19.3	52.0
Ethyl ether	Ave	0.3054	0.3154		0.0207	0.0200	3.3	
Acrolein	Lin1		0.0345		0.0705	0.100	-29.5	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2418	0.3831		0.0317	0.0200	58.4	
1,1-Dichloroethene	Ave	0.5758	0.6777		0.0235	0.0200	17.7	49.0
Acetone	Lin1		0.1209		0.0405	0.0400	1.4	
Iodomethane	Ave	0.4991	0.6693		0.0268	0.0200	34.1	
Carbon disulfide	Ave	1.179	0.7912		0.0134	0.0200	-32.9	
Methyl acetate	Ave	0.3112	0.2597		0.0834	0.100	-16.6	
Methylene Chloride	Ave	0.5520	0.5137		0.0186	0.0200	-6.9	39.0
2-Methyl-2-propanol	Ave	0.0389	0.0413		0.212	0.200	6.1	
Acrylonitrile	Ave	0.1415	0.1383		0.195	0.200	-2.3	
Methyl tert-butyl ether	Ave	1.122	1.176		0.0210	0.0200	4.8	
trans-1,2-Dichloroethene	Ave	0.4575	0.4879		0.0213	0.0200	6.6	30.0
Hexane	Ave	0.2658	0.3096		0.0233	0.0200	16.5	
1,1-Dichloroethane	Ave	0.5904	0.6065		0.0205	0.0200	2.7	27.0
Vinyl acetate	Ave	0.3019	0.4667		0.0297	0.0192	54.6	
2-Butanone (MEK)	Ave	0.1709	0.1452		0.0340	0.0400	-15.1	
cis-1,2-Dichloroethene	Ave	0.4901	0.5088		0.0208	0.0200	3.8	
2,2-Dichloropropane	Ave	0.2799	0.3101		0.0222	0.0200	10.8	
Chlorobromomethane	Ave	0.2732	0.2799		0.0205	0.0200	2.5	
Chloroform	Ave	0.6149	0.6185		0.0201	0.0200	0.6	33.0
1,1,1-Trichloroethane	Ave	0.4173	0.4575		0.0219	0.0200	9.6	25.0
Cyclohexane	Ave	0.2732	0.3401		0.0249	0.0200	24.5	
1,1-Dichloropropene	Ave	0.4062	0.4527		0.0223	0.0200	11.4	
Carbon tetrachloride	Ave	0.2974	0.4183		0.0281	0.0200	40.7*	27.0
Isobutyl alcohol	Ave	0.0126	0.0128		0.510	0.500	2.0	
Benzene	Ave	1.467	1.546		0.0211	0.0200	5.3	36.0
1,2-Dichloroethane	Ave	0.4582	0.4928		0.0215	0.0200	7.6	32.0
Trichloroethene	Ave	0.3754	0.4218		0.0225	0.0200	12.4	33.0
Methylcyclohexane	Ave	0.3714	0.3960		0.0213	0.0200	6.6	
1,2-Dichloropropane	Ave	0.3473	0.3382		0.0195	0.0200	-2.6	66.0
Dibromomethane	Ave	0.2574	0.2873		0.0223	0.0200	11.6	
Dichlorobromomethane	Ave	0.5211	0.5151		0.0198	0.0200	-1.2	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Lab Sample ID: CCVIS 240-180015/3 Calibration Date: 05/08/2015 18:44

Instrument ID: A3UX9 Calib Start Date: 04/24/2015 19:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/24/2015 21:17

Lab File ID: UX949933.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	0.2541	0.2429		0.0382	0.0400	-4.4	99.0
cis-1,3-Dichloropropene	Ave	0.5935	0.6142		0.0207	0.0200	3.5	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3465	0.3074		0.0355	0.0400	-11.3	
Toluene	Ave	1.962	1.994		0.0203	0.0200	1.6	26.0
trans-1,3-Dichloropropene	Ave	0.6596	0.6487		0.0197	0.0200	-1.7	50.0
Ethyl methacrylate	Ave	0.5968	0.5850		0.0196	0.0200	-2.0	
1,1,2-Trichloroethane	Ave	0.4437	0.4330		0.0195	0.0200	-2.4	29.0
1,3-Dichloropropane	Ave	0.7592	0.7797		0.0205	0.0200	2.7	
Tetrachloroethene	Ave	0.4246	0.4720		0.0222	0.0200	11.2	26.0
2-Hexanone	Ave	0.2892	0.2595		0.0359	0.0400	-10.3	
Chlorodibromomethane	Ave	0.4385	0.4699		0.0214	0.0200	7.1	33.0
Ethylene Dibromide	Ave	0.4314	0.4415		0.0205	0.0200	2.4	
Chlorobenzene	Ave	1.309	1.378		0.0211	0.0200	5.3	34.0
1,1,1,2-Tetrachloroethane	Ave	0.4585	0.4689		0.0205	0.0200	2.3	
Ethylbenzene	Ave	0.6666	0.6746		0.0202	0.0200	1.2	41.0
m-Xylene & p-Xylene	Ave	0.8317	0.8460		0.0203	0.0200	1.7	
o-Xylene	Ave	0.8379	0.8451		0.0202	0.0200	0.9	
Styrene	Ave	1.436	1.534		0.0214	0.0200	6.8	
Bromoform	Ave	0.3172	0.3324		0.0210	0.0200	4.8	29.0
Isopropylbenzene	Ave	1.868	1.898		0.0203	0.0200	1.6	
1,1,2,2-Tetrachloroethane	Ave	1.309	1.147		0.0175	0.0200	-12.3	39.0
Bromobenzene	Ave	1.197	1.207		0.0202	0.0200	0.9	
1,2,3-Trichloropropane	Ave	0.4390	0.4085		0.0186	0.0200	-6.9	
trans-1,4-Dichloro-2-butene	Ave	0.3210	0.2885		0.0180	0.0200	-10.1	
N-Propylbenzene	Ave	1.058	1.030		0.0195	0.0200	-2.7	
2-Chlorotoluene	Ave	0.9933	0.9432		0.0190	0.0200	-5.0	
1,3,5-Trimethylbenzene	Ave	3.229	3.066		0.0190	0.0200	-5.1	
4-Chlorotoluene	Ave	1.046	1.038		0.0198	0.0200	-0.8	
tert-Butylbenzene	Ave	3.047	2.746		0.0180	0.0200	-9.9	
1,2,4-Trimethylbenzene	Ave	3.540	3.264		0.0184	0.0200	-7.8	
sec-Butylbenzene	Ave	0.8698	0.8105		0.0186	0.0200	-6.8	
1,3-Dichlorobenzene	Ave	2.121	1.985		0.0187	0.0200	-6.4	27.0
4-Isopropyltoluene	Ave	3.461	3.231		0.0187	0.0200	-6.6	
1,4-Dichlorobenzene	Ave	2.188	2.106		0.0193	0.0200	-3.7	37.0
n-Butylbenzene	Ave	2.962	2.582		0.0174	0.0200	-12.8	
1,2-Dichlorobenzene	Ave	2.085	2.019		0.0194	0.0200	-3.2	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.3064	0.2750		0.0179	0.0200	-10.3	
1,2,4-Trichlorobenzene	Ave	1.393	1.286		0.0185	0.0200	-7.7	
Hexachlorobutadiene	Ave	0.7134	0.5752		0.0161	0.0200	-19.4	
Naphthalene	Ave	4.057	3.727		0.0184	0.0200	-8.1	
1,2,3-Trichlorobenzene	Ave	1.309	1.213		0.0185	0.0200	-7.3	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Lab Sample ID: CCVIS 240-180015/3 Calibration Date: 05/08/2015 18:44

Instrument ID: A3UX9 Calib Start Date: 04/24/2015 19:12

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 04/24/2015 21:17

Lab File ID: UX949933.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-Dichloroethane-d4 (Surr)	Ave	0.3964	0.3604		0.0140	0.0154	-9.1	20.0
Toluene-d8 (Surr)	Ave	1.733	1.617		0.0144	0.0154	-6.7	
4-Bromofluorobenzene (Surr)	Ave	0.6645	0.5837		0.0135	0.0154	-12.2	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-50424-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-180015/5

Matrix: Water | Lab File ID: UX949936.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/08/2015 19:53

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.: 180015 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-180015/5

Matrix: Water Lab File ID: UX949936.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 05/08/2015 19:53

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.: 180015 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		80-125
460-00-4	4-Bromofluorobenzene (Surr)	83		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-50424-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-180015/6

Matrix: Water | Lab File ID: UX949934.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/08/2015 19:08

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.: 180015 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.7		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	16.1		1.0	0.22
79-00-5	1,1,2-Trichloroethane	18.0		1.0	0.24
75-34-3	1,1-Dichloroethane	20.3		1.0	0.30
75-35-4	1,1-Dichloroethene	22.3		1.0	0.45
95-50-1	1,2-Dichlorobenzene	19.3		1.0	0.25
107-06-2	1,2-Dichloroethane	20.0		1.0	0.23
78-87-5	1,2-Dichloropropane	19.5		1.0	0.25
541-73-1	1,3-Dichlorobenzene	18.8		1.0	0.19
106-46-7	1,4-Dichlorobenzene	18.9		1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	22.1		2.0	0.59
107-02-8	Acrolein	77.4		20	4.5
107-13-1	Acrylonitrile	180		20	6.3
71-43-2	Benzene	20.2		1.0	0.35
75-25-2	Bromoform	18.9		1.0	0.56
74-83-9	Bromomethane	16.7		2.0	0.44
56-23-5	Carbon tetrachloride	26.7		1.0	0.43
108-90-7	Chlorobenzene	19.7		1.0	0.25
124-48-1	Chlorodibromomethane	20.4		1.0	0.43
75-00-3	Chloroethane	18.1		2.0	0.32
67-66-3	Chloroform	19.5		1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	19.8		1.0	0.46
75-27-4	Dichlorobromomethane	17.8		1.0	0.29
100-41-4	Ethylbenzene	19.6		1.0	0.25
75-09-2	Methylene Chloride	18.3		2.0	0.33
127-18-4	Tetrachloroethene	21.4		1.0	0.31
108-88-3	Toluene	19.8		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	20.8		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	19.8		1.0	0.56
79-01-6	Trichloroethene	21.7		1.0	0.22
75-69-4	Trichlorofluoromethane	21.5		2.0	0.49
75-01-4	Vinyl chloride	17.3		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-50424-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-180015/6

Matrix: Water | Lab File ID: UX949934.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 05/08/2015 19:08

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.: 180015 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		80-125
460-00-4	4-Bromofluorobenzene (Surr)	85		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-50424-1

SDG No.:

Client Sample ID: | Lab Sample ID: 240-50341-C-6 MS

Matrix: Water | Lab File ID: UX949957.D

Analysis Method: 624 | Date Collected: 05/05/2015 15:05

Sample wt/vol: 5(mL) | Date Analyzed: 05/09/2015 04:17

Soil Aliquot Vol: | Dilution Factor: 100

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

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

Analysis Batch No.: 180015 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2120		100	44
75-34-3	1,1-Dichloroethane	2070		100	30
79-01-6	Trichloroethene	5840		100	22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		80-125
460-00-4	4-Bromofluorobenzene (Surr)	87		80-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Instrument ID: A3UX9 Start Date: 04/24/2015 17:31

Analysis Batch Number: 177929 End Date: 04/25/2015 03:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-177929/1		04/24/2015 17:31	1	BFB2971.D	DB-624 0.18(mm)
STD8260 240-177929/6 IC		04/24/2015 19:12	1	UX949647.D	DB-624 0.18(mm)
STD8260 240-177929/7 IC		04/24/2015 19:37	1	UX949648.D	DB-624 0.18(mm)
STD8260 240-177929/8 IC		04/24/2015 20:02	1	UX949649.D	DB-624 0.18(mm)
STD8260 240-177929/9 ICIS		04/24/2015 20:27	1	UX949650.D	DB-624 0.18(mm)
STD8260 240-177929/10 IC		04/24/2015 20:52	1	UX949651.D	DB-624 0.18(mm)
STD8260 240-177929/11 IC		04/24/2015 21:17	1	UX949652.D	DB-624 0.18(mm)
STDA9 240-177929/14 IC		04/24/2015 22:33	1		DB-624 0.18(mm)
STDA9 240-177929/15 IC		04/24/2015 22:58	1		DB-624 0.18(mm)
STDA9 240-177929/16 IC		04/24/2015 23:23	1		DB-624 0.18(mm)
STDA9 240-177929/17 IC		04/24/2015 23:48	1		DB-624 0.18(mm)
STDA9 240-177929/18 IC		04/25/2015 00:12	1		DB-624 0.18(mm)
STDA9 240-177929/19 IC		04/25/2015 00:37	1		DB-624 0.18(mm)
ZZZZZ		04/25/2015 03:33	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Instrument ID: A3UX9 Start Date: 05/08/2015 18:21

Analysis Batch Number: 180015 End Date: 05/09/2015 04:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-180015/1		05/08/2015 18:21	1	BFB2983.D	DB-624 0.18(mm)
CCVIS 240-180015/3		05/08/2015 18:44	1	UX949933.D	DB-624 0.18(mm)
LCS 240-180015/6		05/08/2015 19:08	1	UX949934.D	DB-624 0.18(mm)
CCV 240-180015/4		05/08/2015 19:31	1	UX949935.D	DB-624 0.18(mm)
MB 240-180015/5		05/08/2015 19:53	1	UX949936.D	DB-624 0.18(mm)
240-50424-1	DSP-4-050715	05/08/2015 20:19	1	UX949937.D	DB-624 0.18(mm)
ZZZZZ		05/08/2015 20:43	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 21:05	50		DB-624 0.18(mm)
ZZZZZ		05/08/2015 21:28	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 21:52	50		DB-624 0.18(mm)
ZZZZZ		05/08/2015 22:16	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 22:40	200		DB-624 0.18(mm)
ZZZZZ		05/08/2015 23:05	100		DB-624 0.18(mm)
ZZZZZ		05/08/2015 23:29	1		DB-624 0.18(mm)
ZZZZZ		05/08/2015 23:53	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 00:17	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 00:41	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 01:05	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 01:29	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 01:53	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 02:17	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 02:41	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 03:05	1		DB-624 0.18(mm)
ZZZZZ		05/09/2015 03:53	1		DB-624 0.18(mm)
240-50341-C-6 MS		05/09/2015 04:17	100	UX949957.D	DB-624 0.18(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-50424-1

SDG No.:

Project: LM MRC Block E

Client Sample ID	Lab Sample ID
DSP-4-050715	240-50424-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DSP-4-050715 Lab Sample ID: 240-50424-1

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG ID.:

Matrix: Water Date Sampled: 05/07/2015 09:15

Reporting Basis: WET Date Received: 05/08/2015 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	pH	6.53	0.100	0.100	SU		HF	1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Analyst: BLW Batch Start Date: 05/08/2015

Reporting Units: SU Analytical Batch No.: 179951

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:50	pH	7.040	7.00	101	99-101		WCPH7_00073
10	CCV	13:56	pH	7.040	7.00	101	99-101		WCPH7_00073

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

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 179951 Date: 05/08/2015 12:18								
4500 H+ B-2000		240-50401-R-1	pH	7.64	SU			
4500 H+ B-2000		240-50401-R-1 DU	pH	7.680	SU	0.5	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 179951	Date: 05/08/2015 12:04										
						LCS Source: WCPHLCS_00010					
4500 H+ B-2000	LCS 240-179951/2	pH	6.210		SU	6.15	101	97-103			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-50424-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-50424-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 05/08/2015 11:50 End Date: 05/08/2015 16:16

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-179951/1	1		11:50	X																			
LCS 240-179951/2	1	T	12:04	X																			
240-50401-R-1 DU	1	T	12:18	X																			
240-50424-1	1	T	13:28	X																			
CCV 240-179951/10	1		13:56	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Batch Number: 179951 Batch Start Date: 05/08/15 11:50 Batch Analyst: Woodward, Bruce

Batch Method: 4500 H+ B-2000 Batch End Date: 05/08/15 16:30

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-179951/1		4500 H+ B-2000		10 mL	7.04 SU	19.8 Celsius			pH = Read 1
LCS 240-179951/2		4500 H+ B-2000		10 mL	6.21 SU	19.9 Celsius			pH = Read 1
240-50401-R-1 DU		4500 H+ B-2000	T	10 mL	7.66 SU	15.9 Celsius	7.68 SU	15.7 Celsius	Read 2 Pass
240-50424-D-1	DSP-4-050715	4500 H+ B-2000	T	10 mL	6.55 SU	19.5 Celsius	6.53 SU	19.4 Celsius	Read 2 Pass
CCV 240-179951/10		4500 H+ B-2000		10 mL	7.04 SU	20.6 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00073	WCPHLCS 00010				
CCV 240-179951/1		4500 H+ B-2000		10 mL					
LCS 240-179951/2		4500 H+ B-2000			10 mL				
240-50401-R-1 DU		4500 H+ B-2000	T						
240-50424-D-1	DSP-4-050715	4500 H+ B-2000	T						
CCV 240-179951/10		4500 H+ B-2000		10 mL					

Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1838817
pH Buffer 2 ID	4-1951693
pH Buffer 3 ID	7-1896764
pH Buffer 4 ID	10-1906227
pH Buffer 5 ID	12-1595632
Calibration Date and Time	5/8/15; 11:50
Electronic Slope	98.7
Instrument ID	Randolph
Probe ID	WCP108
Sufficient volume for sample dup	Y

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-50424-1

SDG No.:

Batch Number: 179951 Batch Start Date: 05/08/15 11:50 Batch Analyst: Woodward, Bruce

Batch Method: 4500 H+ B-2000 Batch End Date: 05/08/15 16:30

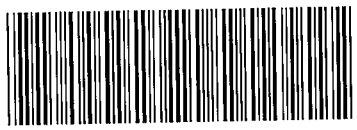
Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY AND RECEIVING DOCUMENTS



240-50424 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

Chain of Custody Record

3.6/C4.1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4142 (0408)

Client	Project Manager	Date	Chain of Custody Number
Tetra Tech	Chris Pike	5-7-15	014816

Address	Telephone Number (Area Code)/Fax Number	Lab Number	Page / of
20251 Century Blvd Ste 200			Page 1 of 1

City	State	Zip Code	Site Contact	Lab Contact
Germantown	MD	20874	Stu Cameron	John McFadden

Project Name and Location (State)	Carrier/Waybill Number
MPE, Block E, MRC, MD	

Contract/Purchase Order/Quote No.: 112I C04769-31

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: VOCs-PP	pH	Special Instructions/ Conditions of Receipt
~~DSP-4-050515~~	~~5-7-15~~			X			4						X	X	
DSP-4-050715	5-7-15	0915		X			4						X	X	

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Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown

Sample Disposal
[ ] Return To Client [X] Disposal By Lab [ ] Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
[ ] 24 Hours [ ] 48 Hours [ ] 7 Days [ ] 14 Days [ ] 21 Days [X] Other 5 day

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By	5-7-15	1200	1. Received By	5/7/15	1200
2. Relinquished By	5/7/15	1600	2. Received By	5/8/15	9:30am
3. Relinquished By			3. Received By		

Comments

DISTRIBUTION: *WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy*

TestAmerica Canton Sample Receipt Form/Narrative Login # : 50424
Canton Facility

Client TetraTech Site Name

Cooler unpacked by:

Cooler Received on 5/8/15 Opened on 5/8/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

~~IR GUN# A (CF +4.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. 3.6 °C Corrected Cooler Temp. 4.1 °C ☐ See Multiple Cooler Form

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

IR GUN# 8 (CF -1.2 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the sampler(s) clearly identified on the COC? Yes No
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 correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC432654
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # Yes No

Contacted PM Date by via Verbal Voice Mail Other
Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) 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 the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

6/10/2015 SAMPLING EVENT

ANALYTICAL REPORT

Job Number: 240-51849-1

Job Description: MRC Block E MPE

For:
Tetra Tech, Inc.
20251 Century Blvd
Suite 200
Germantown, MD 20874

Attention: Tony Apanavage



Approved for release.
John McFadden
Project Manager I
6/17/2015 2:27 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
06/17/2015

cc: Samantha Brenner
Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MRC Block E MPE

Report Number: 240-51849-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT
The sample was received on 6/11/2015 9:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4º C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)
Sample DSP-5-061015 (240-51849-1) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The samples were analyzed on 06/13/2015.

Methylene Chloride was detected in method blank MB 240-185004/5 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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Sample DSP-5-061015 (240-51849-1) was analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 06/11/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Instrument ID: A3UX9 Analysis Batch Number: 182596

Lab Sample ID: STD8260 240-182596/10 I Client Sample ID:

Date Analyzed: 05/27/15 18:51 Lab File ID: UX950159.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.25	Split Peak	laveyt	05/27/15 19:27

Lab Sample ID: STD8260 240-182596/12 I Client Sample ID:

Date Analyzed: 05/27/15 19:39 Lab File ID: UX950161.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.24	Split Peak	laveyt	05/27/15 20:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Instrument ID: A3UX9 Analysis Batch Number: 185004

Lab Sample ID: CCVIS 240-185004/3 Client Sample ID:

Date Analyzed: 06/12/15 16:01 Lab File ID: UX950448.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.24	Split Peak	laveyt	06/12/15 16:50

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-51849-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-51849-1	DSP-5-061015	Water	06/10/2015 1100	06/11/2015 0940

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-51849-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-51849-1	**DSP-5-061015**					
pH		7.39		0.100	SU	4500 H+ B-2000

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-51849-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
pH	TAL CAN	SM 4500 H+ B-2000	

Lab References:

TAL CAN = TestAmerica Canton

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-51849-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
SM 4500 H+ B-2000	Nolle, Laura C	LCN

Client: Tetra Tech, Inc. Job Number: 240-51849-1

Client Sample ID: **DSP-5-061015**

Lab Sample ID: 240-51849-1 Date Sampled: 06/10/2015 1100
Client Matrix: Water Date Received: 06/11/2015 0940

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-185004	Instrument ID:	A3UX9
	N/A	Prep Batch:	N/A	Lab File ID:	UX950494.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/13/2015 1009			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	92		80 - 120
Toluene-d8 (Surr)	98		80 - 120

General Chemistry

Client Sample ID: **DSP-5-061015**

Lab Sample ID: 240-51849-1 Date Sampled: 06/10/2015 1100
Client Matrix: Water Date Received: 06/11/2015 0940

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
pH	7.39		SU	0.100	0.100	1.0	4500 H+ B-2000

Analysis Batch: 240-184780 Analysis Date: 06/11/2015 1615

Client: Tetra Tech, Inc. Job Number: 240-51849-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
240-51849-1	DSP-5-061015	99	98	92
MB 240-185004/5		99	96	88
LCS 240-185004/6		99	104	99
240-51767-C-1 MS		99	101	97

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

Client: Tetra Tech, Inc. Job Number: 240-51849-1

Method Blank - Batch: 240-185004

Method: 624
Preparation: N/A

Lab Sample ID:	MB 240-185004/5	Analysis Batch:	240-185004	Instrument ID:	A3UX9
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX950451.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/12/2015 1711	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.360	J	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	80 - 125
4-Bromofluorobenzene (Surr)	88	80 - 120
Toluene-d8 (Surr)	96	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	99	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	97	80 - 120

Client: Tetra Tech, Inc. Job Number: 240-51849-1

Lab Control Sample - Batch: 240-184780

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-184780/20	Analysis Batch:	240-184780	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	06/11/2015 1141	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.15	6.150	100	97 - 103	

Duplicate - Batch: 240-184780

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-51849-1	Analysis Batch:	240-184780	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	06/11/2015 1615	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.39	7.420	0.4	20	

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-51849-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Tetra Tech, Inc. Job Number: 240-51849-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-185004					
LCS 240-185004/6	Lab Control Sample	T	Water	624	
MB 240-185004/5	Method Blank	T	Water	624	
240-51767-C-1 MS	Matrix Spike	T	Water	624	
240-51849-1	DSP-5-061015	T	Water	624	

Report Basis
T = Total

General Chemistry					
Analysis Batch:240-184780					
LCS 240-184780/20	Lab Control Sample	T	Water	4500 H+ B-2000	
240-51849-1	DSP-5-061015	T	Water	4500 H+ B-2000	
240-51849-1DU	Duplicate	T	Water	4500 H+ B-2000	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-51849-1

Laboratory Chronicle

Lab ID: 240-51849-1 **Client ID: DSP-5-061015**

Sample Date/Time: 06/10/2015 11:00 Received Date/Time: 06/11/2015 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-51849-A-1		240-185004		06/13/2015 10:09	1	TAL CAN	TJL1
A:4500 H+ B-2000	240-51849-D-1		240-184780		06/11/2015 16:15	1	TAL CAN	LCN

Lab ID: 240-51849-1 DU **Client ID: DSP-5-061015**

Sample Date/Time: 06/10/2015 11:00 Received Date/Time: 06/11/2015 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-51849-D-1 DU		240-184780		06/11/2015 16:15	1	TAL CAN	LCN

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-185004/5		240-185004		06/12/2015 17:11	1	TAL CAN	TJL1

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-185004/6		240-185004		06/12/2015 16:24	1	TAL CAN	TJL1
A:4500 H+ B-2000	LCS 240-184780/20		240-184780		06/11/2015 11:41	1	TAL CAN	LCN

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 06/09/2015 10:30 Received Date/Time: 06/10/2015 09:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-51767-C-1 MS		240-185004		06/13/2015 10:33	50	TAL CAN	TJL1

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_00022	08/12/15	02/12/15	MEOH, Lot 85233	50 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00020	10/22/15	04/22/15	MEOH, Lot 85233	100 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00202	05/28/15	05/21/15	MEOH, Lot na	2 mL	vm50ss_stk_00065	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00101	05/31/15	05/26/15	MEOH, Lot na	3 mL	VMACROLSTD_00025	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00025	05/31/15	05/01/15	MEOH, Lot 0000085233	20 mL	VM568720_00006	0.25 mL	Acrolein	250 ug/mL
..VM568720_00006	05/31/15		restek, Lot A0108734		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00103	06/12/15	06/05/15	MEOH, Lot na	3 mL	VMACROLSTD_00026	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00026	07/29/15	05/29/15	MEOH, Lot +161620000085233JB	20 mL	VM568720_00007	0.25 mL	Acrolein	250 ug/mL
..VM568720_00007	07/31/15		restek, Lot A0109948		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00087	06/13/15	06/06/15	MEOH, Lot NA	2 mL	VMFASA_00018	2 mL	Acrolein	250 ug/mL
.VMFASA_00018	07/31/15	05/29/15	MEOH, Lot +161620000085233JB	100 mL	VM568720S_00007	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00007	07/31/15		restek, Lot A0109953		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00098	06/13/15	06/06/15	MEOH, Lot NA	2 mL	VMFASG_00030	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00030	07/06/15	06/06/15	MEOH, Lot 0000085233	50 mL	VM567645S_00015	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00015	08/31/15		Restek, Lot A097497		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00102	06/13/15	06/06/15	MEOH, Lot n/a	2 mL	VMRFASP_00021	2 mL	1,1,1-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
.VMRFASP_00021	07/31/15	05/29/15	MEOH, Lot 0000085233	100 mL	VM567641S_00007	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM569723S_00002	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM569723S_00002	03/31/18		Restek, Lot A0110013		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
VMRGAS_00103	06/02/15	05/26/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00105	06/18/15	06/11/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00127	05/27/15	05/20/15	MEOH, Lot NA	1 mL	VMRPRIM_00011	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Vinyl acetate	48 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00011	05/31/15	05/06/15	MEOH, Lot +1+161620000085233jb	50 mL	VM567641_00013	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00015	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567646_00016	0.6 mL	Vinyl acetate	48 ug/mL
					VM569723_00001	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00015	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567646_00016	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
..VM569723_00001	01/31/18		restek, Lot A0108172		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
VMRPRIMW_00132	06/12/15	06/05/15	MEOH, Lot NA	1 mL	VMRPRIM_00012	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00012	08/31/15	05/27/15	MEOH, Lot +161620000085233JB	50 mL	VM567641_00013	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCPH7_00073	11/03/16		Fisher Scientific, Lot 147660		(Purchased Reagent)		pH	7 SU
WCPHLCS_00010	08/31/16		Phenova, Lot 8137-15		(Purchased Reagent)		pH	6.15 SU

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-51849-1
Project/Site: MRC Block E MPE

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	Kentucky (WW)	State Program	4	98016
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Oregon	NELAP	10	4062
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL_UP

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
DSP-5-061015	240-51849-1	99	98	92
	MB 240-185004/5	99	96	88
	LCS 240-185004/6	99	104	99
	240-51767-C-1 MS	99	101	97

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	80-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	80-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Lab File ID: UX950451.D Lab Sample ID: MB 240-185004/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX9 Date Analyzed: 06/12/2015 17:11

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 240-185004/6	UX950449.D	06/12/2015 16:24
DSP-5-061015	240-51849-1	UX950494.D	06/13/2015 10:09
	240-51767-C-1 MS	UX950495.D	06/13/2015 10:33

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Lab File ID: BFB2994.D BFB Injection Date: 05/27/2015

Instrument ID: A3UX9 BFB Injection Time: 15:12

Analysis Batch No.: 182596

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	49.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	88.5	
175	5.0 - 9.0 % of mass 174	7.0	(7.9)1
176	95.0 - 101.0 % of mass 174	85.4	(96.4)1
177	5.0 - 9.0 % of mass 176	5.0	(5.9)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 240-182596/7	UX950156.D	05/27/2015	17:18
	STD8260 240-182596/8	UX950157.D	05/27/2015	18:03
	STD8260 240-182596/9	UX950158.D	05/27/2015	18:27
	STD8260 240-182596/10	UX950159.D	05/27/2015	18:51
	STD8260 240-182596/11	UX950160.D	05/27/2015	19:15
	STD8260 240-182596/12	UX950161.D	05/27/2015	19:39

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Lab File ID: BFB3004.D BFB Injection Date: 06/12/2015

Instrument ID: A3UX9 BFB Injection Time: 15:37

Analysis Batch No.: 185004

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.7	
75	30.0 - 60.0 % of mass 95	45.5	
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	0.5	(0.5)1
174	50.0 - 120.00 % of mass 95	95.8	
175	5.0 - 9.0 % of mass 174	7.2	(7.5)1
176	95.0 - 101.0 % of mass 174	93.8	(97.9)1
177	5.0 - 9.0 % of mass 176	6.0	(6.4)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 240-185004/3	UX950448.D	06/12/2015	16:01
	LCS 240-185004/6	UX950449.D	06/12/2015	16:24
	CCV 240-185004/4	UX950450.D	06/12/2015	16:48
	MB 240-185004/5	UX950451.D	06/12/2015	17:11
DSP-5-061015	240-51849-1	UX950494.D	06/13/2015	10:09
	240-51767-C-1 MS	UX950495.D	06/13/2015	10:33

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Sample No.: STD8260 240-182596/10 Date Analyzed: 05/27/2015 18:51

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX950159.D Heated Purge: (Y/N) N

Calibration ID: 28706

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		752816	5.41	597354	8.08	313939	10.32
UPPER LIMIT		1505632	5.91	1194708	8.58	627878	10.82
LOWER LIMIT		376408	4.91	298677	7.58	156970	9.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 240-185004/3		720612	5.40	617004	8.08	337056	10.33

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 624

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Sample No.: CCVIS 240-185004/3 Date Analyzed: 06/12/2015 16:01

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX950448.D Heated Purge: (Y/N) N

Calibration ID: 28706

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		720612	5.40	617004	8.08	337056	10.33
UPPER LIMIT		1441224	5.90	1234008	8.58	674112	10.83
LOWER LIMIT		360306	4.90	308502	7.58	168528	9.83
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-185004/6		755584	5.41	626576	8.08	343690	10.32
CCV 240-185004/4		726438	5.40	626101	8.08	318682	10.31
MB 240-185004/5		734342	5.40	628165	8.08	317182	10.32
240-51849-1	DSP-5-061015	762132	5.40	635923	8.08	321766	10.31
240-51767-C-1 MS		768065	5.40	643851	8.08	340660	10.31

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-51849-1

SDG No.:

Client Sample ID: DSP-5-061015 | Lab Sample ID: 240-51849-1

Matrix: Water | Lab File ID: UX950494.D

Analysis Method: 624 | Date Collected: 06/10/2015 11:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/13/2015 10:09

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.: 185004 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Client Sample ID: DSP-5-061015 Lab Sample ID: 240-51849-1

Matrix: Water Lab File ID: UX950494.D

Analysis Method: 624 Date Collected: 06/10/2015 11:00

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2015 10:09

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.: 185004 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-125
460-00-4	4-Bromofluorobenzene (Surr)	92		80-120
2037-26-5	Toluene-d8 (Surr)	98		80-120

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-51849-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-182596/7	UX950156.D
Level 2	STD8260 240-182596/8	UX950157.D
Level 3	STD8260 240-182596/9	UX950158.D
Level 4	STD8260 240-182596/10	UX950159.D
Level 5	STD8260 240-182596/11	UX950160.D
Level 6	STD8260 240-182596/12	UX950161.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	0.3043 0.3488	0.3485	0.3984	0.2869	0.2914	Ave		0.3297				13.1		35.0			
Chloromethane	0.6050 0.4718	0.4522	0.4897	0.4673	0.4885	Ave		0.4958				11.2		35.0			
Vinyl chloride	0.4680 0.5385	0.4784	0.5226	0.4888	0.5404	Ave		0.5061				6.3		35.0			
Bromomethane	0.3689 0.3539	0.2759	0.3463	0.3323	0.3543	Ave		0.3386				9.7		35.0			
Chloroethane	0.2457 0.3661	0.2875	0.3491	0.3365	0.3662	Ave		0.3252				14.9		35.0			
Dichlorofluoromethane	0.7619 0.7834	0.7326	0.7877	0.7554	0.8098	Ave		0.7718				3.5		35.0			
Trichlorofluoromethane	0.4368 0.5540	0.4506	0.5778	0.4760	0.5245	Ave		0.5033				11.4		35.0			
Acrolein	0.0292 0.0354	0.0390	0.0360	0.0366	0.0361	Ave		0.0354				9.2		35.0			
Acetone	0.3647 +++++	0.2865	0.1422	0.1513	0.1390	Lin1	0.2485	0.1379							0.9980		0.9900
1,1-Dichloroethene	0.4832 0.6439	0.5126	0.6638	0.6355	0.6495	Ave		0.5981				13.2		35.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.3675	0.2603	0.3685	0.3592	0.2385	Ave		0.3188				20.0		35.0			
Carbon disulfide	0.6139 0.7664	0.8106	0.6489	0.6663	0.6474	Ave		0.6922				11.2		35.0			
Methyl acetate	0.2889 0.2356	0.2346	0.2529	0.2369	0.2426	Ave		0.2486				8.4		35.0			
Methylene Chloride	+++++ 0.4976	0.6288	0.4826	0.5087	0.4591	Ave		0.5154				12.8		35.0			
Acrylonitrile	0.1228 0.1274	0.1217	0.1332	0.1262	0.1310	Ave		0.1270				3.5		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-51849-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

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								
Methyl tert-butyl ether	1.0487 1.1270	1.0300	1.1004	1.0799	1.1504	Ave		1.0894				4.2		35.0			
trans-1,2-Dichloroethene	0.4707 0.4938	0.4187	0.4795	0.4723	0.4891	Ave		0.4707				5.7		35.0			
Hexane	+++++ 0.3038	0.2471	0.3143	0.2973	0.2242	Ave		0.2773				14.2		35.0			
1,1-Dichloroethane	0.5239 0.6025	0.5876	0.6075	0.5822	0.6002	Ave		0.5840				5.3		35.0			
Vinyl acetate	0.4894 0.4349	0.4366	0.4160	0.4058	0.4208	Ave		0.4339				6.8		35.0			
2-Butanone (MEK)	0.1483 0.1333	0.1658	0.1561	0.1529	0.1518	Ave		0.1514				7.0		35.0			
cis-1,2-Dichloroethene	0.5193 0.4891	0.4978	0.4734	0.4719	0.4936	Ave		0.4909				3.6		35.0			
Chlorobromomethane	0.2497 0.2605	0.2460	0.2772	0.2604	0.2705	Ave		0.2607				4.6		35.0			
Chloroform	0.5038 0.5955	0.5801	0.5891	0.5746	0.6047	Ave		0.5746				6.3		35.0			
1,1,1-Trichloroethane	0.3920 0.4965	0.4144	0.4412	0.4343	0.4542	Ave		0.4388				8.1		35.0			
Cyclohexane	0.2752 +++++	0.2944	0.3175	0.2978	0.2106	Ave		0.2791				14.7		35.0			
1,1-Dichloropropene	0.4149 0.4467	0.3842	0.4387	0.4200	0.4411	Ave		0.4243				5.5		35.0			
Carbon tetrachloride	0.3095 0.4207	0.3442	0.3713	0.3635	0.3720	Ave		0.3635				10.1		35.0			
Isobutyl alcohol	0.0111 0.0100	0.0112	0.0117	0.0111	0.0107	Ave		0.0110				5.2		35.0			
Benzene	1.5862 1.4741	1.3834	1.5278	1.4724	1.5121	Ave		1.4927				4.6		35.0			
1,2-Dichloroethane	0.4691 0.4679	0.4503	0.4724	0.4551	0.4750	Ave		0.4650				2.1		35.0			
Trichloroethene	0.4090 0.4129	0.3669	0.4192	0.4074	0.4148	Ave		0.4050				4.7		35.0			
Methylcyclohexane	0.3372 0.4216	0.3336	0.4046	0.3807	0.3013	Ave		0.3632				12.8		35.0			
1,2-Dichloropropane	0.3142 0.3356	0.2788	0.3252	0.3269	0.3344	Ave		0.3192				6.7		35.0			
Dichlorobromomethane	0.4018 0.4734	0.3879	0.4656	0.4552	0.4760	Ave		0.4433				8.7		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-51849-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

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								
2-Chloroethyl vinyl ether	0.2090 0.2279	0.2068	0.2238	0.2134	0.2265	Ave		0.2179				4.3		35.0			
cis-1,3-Dichloropropene	0.5116 0.5933	0.4921	0.5635	0.5538	0.5944	Ave		0.5514				7.6		35.0			
4-Methyl-2-pentanone (MIBK)	0.2774 0.2733	0.2705	0.2807	0.2787	0.2869	Ave		0.2779				2.1		35.0			
Toluene	1.8646 1.9458	1.8182	2.0465	1.9827	2.0360	Ave		1.9490				4.7		35.0			
trans-1,3-Dichloropropene	0.5524 0.6454	0.5833	0.6128	0.6167	0.6402	Ave		0.6085				5.8		35.0			
1,1,2-Trichloroethane	0.3569 0.4142	0.3486	0.4138	0.4102	0.4216	Ave		0.3942				8.2		35.0			
1,3-Dichloropropane	0.7629 0.7435	0.7213	0.7479	0.7541	0.7610	Ave		0.7485				2.0		35.0			
Tetrachloroethene	0.4296 0.4715	0.4101	0.4669	0.4645	0.4612	Ave		0.4507				5.5		35.0			
2-Hexanone	0.2843 0.2455	0.2680	0.2936	0.3130	0.3041	Ave		0.2848				8.7		35.0			
Chlorodibromomethane	0.3125 0.4574	0.4175	0.4220	0.4417	0.4532	Ave		0.4174				12.9		35.0			
Ethylene Dibromide	0.4093 0.4225	0.4032	0.4115	0.4189	0.4268	Ave		0.4154				2.1		35.0			
Chlorobenzene	1.3533 1.3457	1.3380	1.3331	1.3565	1.3680	Ave		1.3491				1.0		35.0			
1,1,1,2-Tetrachloroethane	0.3688 0.4714	0.3846	0.4476	0.4494	0.4669	Ave		0.4314				10.1		35.0			
Ethylbenzene	0.6192 0.7039	0.5720	0.6696	0.6843	0.6981	Ave		0.6578				7.9		35.0			
m-Xylene & p-Xylene	0.7782 0.8758	0.7304	0.8251	0.8384	0.8683	Ave		0.8194				6.8		35.0			
o-Xylene	0.7662 0.8801	0.7311	0.8163	0.8519	0.8693	Ave		0.8192				7.3		35.0			
Styrene	1.2706 1.5526	1.1626	1.4481	1.4842	1.5488	Ave		1.4111				11.3		35.0			
Bromoform	+++++ 0.3194	0.2386	0.2960	0.2878	0.3152	Ave		0.2914				11.1		35.0			
Isopropylbenzene	1.7887 1.9451	1.5805	1.8774	1.9143	1.9743	Ave		1.8467				7.9		35.0			
1,1,2,2-Tetrachloroethane	1.0258 1.0088	0.9985	1.0693	1.0163	1.0439	Ave		1.0271				2.5		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-51849-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

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								
1,3,5-Trimethylbenzene	2.6913 3.0574	2.6102	3.0410	3.0069	3.1894	Ave		2.9327				7.8		35.0			
1,2,4-Trimethylbenzene	2.7956 3.2303	2.7506	3.1744	3.2140	3.3740	Ave		3.0898				8.2		35.0			
1,3-Dichlorobenzene	1.8533 1.9792	1.8996	2.0145	2.0160	2.0656	Ave		1.9714				4.0		35.0			
1,4-Dichlorobenzene	2.2201 2.0527	2.2427	2.1005	2.0978	2.1392	Ave		2.1422				3.5		35.0			
1,2-Dichlorobenzene	1.9982 1.9591	1.9891	2.0107	1.9928	2.0367	Ave		1.9978				1.3		35.0			
1,2,4-Trichlorobenzene	1.5237 1.2925	1.4096	1.2672	1.2422	1.3083	Ave		1.3406				7.9		35.0			
Naphthalene	3.4384 3.3932	3.1533	3.3246	3.3953	3.5655	Ave		3.3784				4.0		35.0			
1,2-Dichloroethane-d4 (Surr)	0.3138 0.3571	0.3735	0.3644	0.3780	0.3620	Ave		0.3581				6.4		35.0			
Toluene-d8 (Surr)	1.5210 1.5950	1.4774	1.6291	1.6325	1.6666	Ave		1.5869				4.6		35.0			
4-Bromofluorobenzene (Surr)	0.5813 0.6041	0.5619	0.5736	0.5866	0.6016	Ave		0.5848				2.8		35.0			

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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-51849-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-182596/7	UX950156.D
Level 2	STD8260 240-182596/8	UX950157.D
Level 3	STD8260 240-182596/9	UX950158.D
Level 4	STD8260 240-182596/10	UX950159.D
Level 5	STD8260 240-182596/11	UX950160.D
Level 6	STD8260 240-182596/12	UX950161.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	5527 1085628	12975	148626	216016	441109	0.500 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	10987 1468483	16837	182699	351824	739397	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	8500 1675995	17812	194976	368004	817986	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	6700 1101469	10271	129193	250169	536279	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	4462 1139538	10704	130219	253314	554287	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	13837 2438263	27278	293876	568702	1225775	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	7932 1724186	16778	215567	358374	793939	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	2652 550304	7255	67165	137753	272994	2.50 400	5.00	50.0	100	200
Acetone	FB	Lin1	13246 +++++	21338	106128	227848	420902	1.00 +++++	2.00	20.0	40.0	80.0
1,1-Dichloroethene	FB	Ave	8776 2003868	19086	247635	478378	983174	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 1143868	9693	137461	270418	361081	+++++ 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	11148 2385356	30179	242066	501590	979963	0.500 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	26235 3666266	43681	471649	891820	1836257	2.50 400	5.00	50.0	100	200
Methylene Chloride	FB	Ave	+++++ 1548504	23412	180045	382980	694899	+++++ 80.0	1.00	10.0	20.0	40.0
Acrylonitrile	FB	Ave	22309 3963457	45294	496841	950406	1983169	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	19045 3507420	38351	410514	813003	1741427	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-51849-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
trans-1,2-Dichloroethene	FB	Ave	8548 1536721	15589	178865	355530	740290	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	+++++ 945512	9200	117240	223815	339340	+++++ 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	9514 1875043	21879	226616	438281	908578	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	8533 1299408	15604	148989	293278	611488	0.480 76.8	0.960	9.60	19.2	38.4
2-Butanone (MEK)	FB	Ave	5387 830006	12348	116471	230224	459614	1.00 160	2.00	20.0	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	9430 1522340	18533	176610	355278	747186	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	4535 810688	9158	103415	196048	409509	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	9150 1853257	21598	219762	432560	915359	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	7119 1545371	15430	164597	326945	687472	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	4997 +++++	10963	118458	224197	318801	0.500 +++++	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	7534 1390277	14305	163646	316189	667731	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5621 1309271	12817	138534	273613	563059	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	5035 774942	10394	108692	209711	405700	12.5 2000	25.0	250	500	1000
Benzene	FB	Ave	28807 4587762	51507	569943	1108439	2288792	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	8519 1456311	16765	176233	342616	719061	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	7428 1285189	13659	156377	306705	627814	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	6124 1312138	12422	150941	286593	456068	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	5706 1044311	10379	121316	246087	506158	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	7296 1473349	14444	173707	342697	720477	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	7590 1418726	15397	167011	321231	685855	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	9290 1846517	18324	210225	416911	899671	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-51849-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methyl-2-pentanone (MIBK)	FB	Ave	10076 1701413	20146	209403	419577	868534	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	27194 4948814	54803	618072	1184395	2506939	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	8057 1641496	17580	185085	368402	788291	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	5206 1053454	10507	124974	245025	519075	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	11126 1890945	21742	225890	450449	937030	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	6266 1199314	12362	141006	277494	567835	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	8292 1248992	16153	177371	373891	748959	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	4558 1163251	12584	127459	263840	557989	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	5970 1074531	12153	124288	250222	525461	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	19738 3422600	40329	402602	810336	1684428	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	5379 1198816	11591	135178	268474	574896	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	9031 1790193	17240	202220	408785	859556	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	11350 2227599	22015	249205	500798	1069178	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	11175 2238335	22037	246531	508890	1070386	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	18531 3948733	35041	437353	886608	1907007	0.500 80.0	1.00	10.0	20.0	40.0
Bromoform	CBZ	Ave	+++++ 812465	7192	89399	171946	388140	+++++ 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	26087 4946984	47638	567013	1143492	2431016	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	7685 1400430	15112	166715	319051	670117	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	20163 4244128	39504	474144	943990	2047373	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	20944 4484195	41629	494947	1009015	2165868	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	13885 2747439	28749	314086	632905	1325966	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-51849-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	16633 2849455	33942	327500	658580	1373251	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	14970 2719546	30103	313496	625624	1307425	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	11415 1794142	21333	197572	389965	839848	0.500 80.0	1.00	10.0	20.0	40.0
Naphthalene	DCB	Ave	25760 4710274	47723	518362	1065915	2288826	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	5698 1111416	13906	135925	284602	548026	0.500 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	22183 4056592	44530	492018	975210	2052061	0.500 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	8478 1536446	16935	173220	350397	740733	0.500 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Lab Sample ID: CCVIS 240-185004/3 Calibration Date: 06/12/2015 16:01

Instrument ID: A3UX9 Calib Start Date: 05/27/2015 17:18

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/27/2015 19:39

Lab File ID: UX950448.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	0.3297	0.4502		0.0273	0.0200	36.5	
Chloromethane	Ave	0.4958	0.4696		0.0189	0.0200	-5.3	99.0
Vinyl chloride	Ave	0.5061	0.5389		0.0213	0.0200	6.5	96.0
Bromomethane	Ave	0.3386	0.3369		0.0199	0.0200	-0.5	86.0
Chloroethane	Ave	0.3252	0.3548		0.0218	0.0200	9.1	62.0
Dichlorofluoromethane	Ave	0.7718	0.7906		0.0205	0.0200	2.4	
Trichlorofluoromethane	Ave	0.5033	0.6282		0.0250	0.0200	24.8	52.0
Ethyl ether	Ave	0.2930	0.2963		0.0202	0.0200	1.1	
Acrolein	Ave	0.0354	0.0368		0.104	0.100	3.9	
Acetone	Lin1	0.2168	0.0925		0.0250	0.0400	-37.4	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3188	0.3698		0.0232	0.0200	16.0	
1,1-Dichloroethene	Ave	0.5981	0.6421		0.0215	0.0200	7.4	49.0
Iodomethane	Ave	0.6179	0.6792		0.0220	0.0200	9.9	
Carbon disulfide	Ave	0.6922	0.7946		0.0230	0.0200	14.8	
Methyl acetate	Ave	0.2486	0.2341		0.0942	0.100	-5.8	
Methylene Chloride	Ave	0.5154	0.4919		0.0191	0.0200	-4.6	39.0
2-Methyl-2-propanol	Ave	0.0341	0.0312		0.183	0.200	-8.6	
Acrylonitrile	Ave	0.1270	0.1244		0.196	0.200	-2.1	
Methyl tert-butyl ether	Ave	1.089	1.077		0.0198	0.0200	-1.1	
trans-1,2-Dichloroethene	Ave	0.4707	0.4827		0.0205	0.0200	2.6	30.0
Hexane	Ave	0.2773	0.2982		0.0215	0.0200	7.5	
1,1-Dichloroethane	Ave	0.5840	0.5953		0.0204	0.0200	1.9	27.0
Vinyl acetate	Ave	0.4339	0.4297		0.0198	0.0200	-1.0	
2-Butanone (MEK)	Ave	0.1514	0.1231		0.0325	0.0400	-18.7	
cis-1,2-Dichloroethene	Ave	0.4909	0.4789		0.0195	0.0200	-2.4	
2,2-Dichloropropane	Ave	0.2751	0.2813		0.0204	0.0200	2.2	
Chlorobromomethane	Ave	0.2607	0.2669		0.0205	0.0200	2.4	
Chloroform	Ave	0.5746	0.5996		0.0209	0.0200	4.4	33.0
1,1,1-Trichloroethane	Ave	0.4388	0.4639		0.0211	0.0200	5.7	25.0
Cyclohexane	Ave	0.2791	0.5286		0.0379	0.0200	89.4	
1,1-Dichloropropene	Ave	0.4243	0.4243		0.0200	0.0200	0.0	
Carbon tetrachloride	Ave	0.3635	0.4039		0.0222	0.0200	11.1	27.0
Isobutyl alcohol	Ave	0.0110	0.0092		0.418	0.500	-16.3	
1,2-Dichloroethane	Ave	0.4650	0.4565		0.0196	0.0200	-1.8	32.0
Benzene	Ave	1.493	1.507		0.0202	0.0200	1.0	36.0
Trichloroethene	Ave	0.4050	0.4081		0.0202	0.0200	0.8	33.0
Methylcyclohexane	Ave	0.3632	0.3902		0.0215	0.0200	7.4	
1,2-Dichloropropane	Ave	0.3192	0.3377		0.0212	0.0200	5.8	66.0
Dibromomethane	Ave	0.2638	0.2617		0.0198	0.0200	-0.8	
Dichlorobromomethane	Ave	0.4433	0.4634		0.0209	0.0200	4.5	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Lab Sample ID: CCVIS 240-185004/3 Calibration Date: 06/12/2015 16:01

Instrument ID: A3UX9 Calib Start Date: 05/27/2015 17:18

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/27/2015 19:39

Lab File ID: UX950448.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	0.2179	0.2216		0.0407	0.0400	1.7	99.0
cis-1,3-Dichloropropene	Ave	0.5514	0.5708		0.0207	0.0200	3.5	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2779	0.2592		0.0373	0.0400	-6.7	
Toluene	Ave	1.949	1.886		0.0193	0.0200	-3.3	26.0
trans-1,3-Dichloropropene	Ave	0.6085	0.5809		0.0191	0.0200	-4.5	50.0
Ethyl methacrylate	Ave	0.5153	0.4870		0.0189	0.0200	-5.5	
1,1,2-Trichloroethane	Ave	0.3942	0.3993		0.0203	0.0200	1.3	29.0
1,3-Dichloropropane	Ave	0.7485	0.6973		0.0186	0.0200	-6.8	
Tetrachloroethene	Ave	0.4507	0.4449		0.0197	0.0200	-1.3	26.0
2-Hexanone	Ave	0.2848	0.2148		0.0302	0.0400	-24.6	
Chlorodibromomethane	Ave	0.4174	0.4097		0.0196	0.0200	-1.9	33.0
Ethylene Dibromide	Ave	0.4154	0.3957		0.0191	0.0200	-4.7	
Chlorobenzene	Ave	1.349	1.279		0.0190	0.0200	-5.2	34.0
1,1,1,2-Tetrachloroethane	Ave	0.4314	0.4247		0.0197	0.0200	-1.6	
Ethylbenzene	Ave	0.6578	0.6273		0.0191	0.0200	-4.7	41.0
m-Xylene & p-Xylene	Ave	0.8194	0.7907		0.0193	0.0200	-3.5	
o-Xylene	Ave	0.8192	0.7893		0.0193	0.0200	-3.6	
Styrene	Ave	1.411	1.410		0.0200	0.0200	-0.1	
Bromoform	Ave	0.2914	0.2860		0.0196	0.0200	-1.8	29.0
Isopropylbenzene	Ave	1.847	1.774		0.0192	0.0200	-3.9	
1,1,2,2-Tetrachloroethane	Ave	1.027	0.9314		0.0181	0.0200	-9.3	39.0
Bromobenzene	Ave	1.109	1.045		0.0189	0.0200	-5.7	
1,2,3-Trichloropropane	Ave	0.3814	0.3462		0.0182	0.0200	-9.2	
trans-1,4-Dichloro-2-butene	Ave	0.2938	0.2604		0.0177	0.0200	-11.4	
N-Propylbenzene	Ave	0.999	0.9132		0.0183	0.0200	-8.5	
2-Chlorotoluene	Ave	0.8950	0.8475		0.0189	0.0200	-5.3	
1,3,5-Trimethylbenzene	Ave	2.933	2.712		0.0185	0.0200	-7.5	
4-Chlorotoluene	Ave	0.9864	0.9118		0.0185	0.0200	-7.6	
tert-Butylbenzene	Ave	2.908	2.625		0.0180	0.0200	-9.8	
1,2,4-Trimethylbenzene	Ave	3.090	2.906		0.0188	0.0200	-5.9	
sec-Butylbenzene	Ave	0.7745	0.7127		0.0184	0.0200	-8.0	
1,3-Dichlorobenzene	Ave	1.971	1.847		0.0187	0.0200	-6.3	27.0
4-Isopropyltoluene	Ave	3.193	2.908		0.0182	0.0200	-8.9	
1,4-Dichlorobenzene	Ave	2.142	1.904		0.0178	0.0200	-11.1	37.0
n-Butylbenzene	Ave	2.643	2.272		0.0172	0.0200	-14.0	
1,2-Dichlorobenzene	Ave	1.998	1.843		0.0185	0.0200	-7.7	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.2262	0.2310		0.0204	0.0200	2.1	
1,2,4-Trichlorobenzene	Ave	1.341	1.157		0.0173	0.0200	-13.7	
Hexachlorobutadiene	Ave	0.5865	0.5168		0.0176	0.0200	-11.9	
Naphthalene	Ave	3.378	3.101		0.0184	0.0200	-8.2	
1,2,3-Trichlorobenzene	Ave	1.215	1.090		0.0179	0.0200	-10.3	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Lab Sample ID: CCVIS 240-185004/3 Calibration Date: 06/12/2015 16:01

Instrument ID: A3UX9 Calib Start Date: 05/27/2015 17:18

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/27/2015 19:39

Lab File ID: UX950448.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-Dichloroethane-d4 (Surr)	Ave	0.3581	0.3626		0.0156	0.0154	1.3	20.0
Toluene-d8 (Surr)	Ave	1.587	1.609		0.0156	0.0154	1.4	
4-Bromofluorobenzene (Surr)	Ave	0.5848	0.5617		0.0148	0.0154	-4.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-51849-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-185004/5

Matrix: Water | Lab File ID: UX950451.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2015 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.: 185004 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.360	J	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-185004/5

Matrix: Water Lab File ID: UX950451.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/12/2015 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.: 185004 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-125
460-00-4	4-Bromofluorobenzene (Surr)	88		80-120
2037-26-5	Toluene-d8 (Surr)	96		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-51849-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-185004/6

Matrix: Water | Lab File ID: UX950449.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/12/2015 16:24

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.: 185004 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.4		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	18.7		1.0	0.22
79-00-5	1,1,2-Trichloroethane	20.2		1.0	0.24
75-34-3	1,1-Dichloroethane	20.8		1.0	0.30
75-35-4	1,1-Dichloroethene	19.4		1.0	0.45
95-50-1	1,2-Dichlorobenzene	18.9		1.0	0.25
107-06-2	1,2-Dichloroethane	20.1		1.0	0.23
78-87-5	1,2-Dichloropropane	21.8		1.0	0.25
541-73-1	1,3-Dichlorobenzene	19.5		1.0	0.19
106-46-7	1,4-Dichlorobenzene	18.9		1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	20.8		2.0	0.59
107-02-8	Acrolein	105		20	4.5
107-13-1	Acrylonitrile	194		20	6.3
71-43-2	Benzene	20.1		1.0	0.35
75-25-2	Bromoform	19.3		1.0	0.56
74-83-9	Bromomethane	15.6		2.0	0.44
56-23-5	Carbon tetrachloride	21.6		1.0	0.43
108-90-7	Chlorobenzene	19.9		1.0	0.25
124-48-1	Chlorodibromomethane	20.6		1.0	0.43
75-00-3	Chloroethane	17.6		2.0	0.32
67-66-3	Chloroform	21.1		1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	21.1		1.0	0.46
75-27-4	Dichlorobromomethane	20.5		1.0	0.29
100-41-4	Ethylbenzene	20.0		1.0	0.25
75-09-2	Methylene Chloride	18.7		2.0	0.33
127-18-4	Tetrachloroethene	20.2		1.0	0.31
108-88-3	Toluene	20.1		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	20.2		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	21.2		1.0	0.56
79-01-6	Trichloroethene	20.6		1.0	0.22
75-69-4	Trichlorofluoromethane	20.9		2.0	0.49
75-01-4	Vinyl chloride	15.7		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-185004/6

Matrix: Water Lab File ID: UX950449.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/12/2015 16:24

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.: 185004 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-125
460-00-4	4-Bromofluorobenzene (Surr)	99		80-120
2037-26-5	Toluene-d8 (Surr)	104		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-51849-1

SDG No.:

Client Sample ID: | Lab Sample ID: 240-51767-C-1 MS

Matrix: Water | Lab File ID: UX950495.D

Analysis Method: 624 | Date Collected: 06/09/2015 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/13/2015 10:33

Soil Aliquot Vol: | Dilution Factor: 50

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

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

Analysis Batch No.: 185004 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1740		50	22
79-34-5	1,1,2,2-Tetrachloroethane	827		50	11
79-00-5	1,1,2-Trichloroethane	894		50	12
75-34-3	1,1-Dichloroethane	1080		50	15
75-35-4	1,1-Dichloroethene	1500		50	23
95-50-1	1,2-Dichlorobenzene	864		50	13
107-06-2	1,2-Dichloroethane	907		50	12
78-87-5	1,2-Dichloropropane	935		50	13
541-73-1	1,3-Dichlorobenzene	864		50	9.5
106-46-7	1,4-Dichlorobenzene	841		50	14
110-75-8	2-Chloroethyl vinyl ether	119		100	30
107-02-8	Acrolein	4460		1000	230
107-13-1	Acrylonitrile	8020		1000	320
71-43-2	Benzene	893		50	18
75-25-2	Bromoform	767		50	28
74-83-9	Bromomethane	714		100	22
56-23-5	Carbon tetrachloride	904		50	22
108-90-7	Chlorobenzene	872		50	13
124-48-1	Chlorodibromomethane	848		50	22
75-00-3	Chloroethane	811		100	16
67-66-3	Chloroform	933		50	13
10061-01-5	cis-1,3-Dichloropropene	878		50	23
75-27-4	Dichlorobromomethane	911		50	15
100-41-4	Ethylbenzene	887		50	13
75-09-2	Methylene Chloride	774		100	17
127-18-4	Tetrachloroethene	914		50	16
108-88-3	Toluene	891		50	12
156-60-5	trans-1,2-Dichloroethene	954		25	15
10061-02-6	trans-1,3-Dichloropropene	876		50	28
79-01-6	Trichloroethene	3880		50	11
75-69-4	Trichlorofluoromethane	913		100	25
75-01-4	Vinyl chloride	664		100	15

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Client Sample ID: Lab Sample ID: 240-51767-C-1 MS

Matrix: Water Lab File ID: UX950495.D

Analysis Method: 624 Date Collected: 06/09/2015 10:30

Sample wt/vol: 5(mL) Date Analyzed: 06/13/2015 10:33

Soil Aliquot Vol: Dilution Factor: 50

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 185004 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		80-125
460-00-4	4-Bromofluorobenzene (Surr)	97		80-120
2037-26-5	Toluene-d8 (Surr)	101		80-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Instrument ID: A3UX9 Start Date: 05/27/2015 15:12

Analysis Batch Number: 182596 End Date: 05/27/2015 22:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-182596/1		05/27/2015 15:12	1	BFB2994.D	DB-624 0.18(mm)
STD8260 240-182596/7 IC		05/27/2015 17:18	1	UX950156.D	DB-624 0.18(mm)
STD8260 240-182596/8 IC		05/27/2015 18:03	1	UX950157.D	DB-624 0.18(mm)
STD8260 240-182596/9 IC		05/27/2015 18:27	1	UX950158.D	DB-624 0.18(mm)
STD8260 240-182596/10 ICIS		05/27/2015 18:51	1	UX950159.D	DB-624 0.18(mm)
STD8260 240-182596/11 IC		05/27/2015 19:15	1	UX950160.D	DB-624 0.18(mm)
STD8260 240-182596/12 IC		05/27/2015 19:39	1	UX950161.D	DB-624 0.18(mm)
ZZZZZ		05/27/2015 22:00	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Instrument ID: A3UX9 Start Date: 06/12/2015 15:37

Analysis Batch Number: 185004 End Date: 06/13/2015 10:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-185004/1		06/12/2015 15:37	1	BFB3004.D	DB-624 0.18(mm)
CCVIS 240-185004/3		06/12/2015 16:01	1	UX950448.D	DB-624 0.18(mm)
LCS 240-185004/6		06/12/2015 16:24	1	UX950449.D	DB-624 0.18(mm)
CCV 240-185004/4		06/12/2015 16:48	1	UX950450.D	DB-624 0.18(mm)
MB 240-185004/5		06/12/2015 17:11	1	UX950451.D	DB-624 0.18(mm)
ZZZZZ		06/13/2015 03:46	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 04:10	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 04:57	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 05:21	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 05:45	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 06:09	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 06:33	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 06:57	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 07:21	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 07:45	50		DB-624 0.18(mm)
ZZZZZ		06/13/2015 08:09	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 08:33	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 08:57	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 09:21	1		DB-624 0.18(mm)
ZZZZZ		06/13/2015 09:45	1		DB-624 0.18(mm)
240-51849-1	DSP-5-061015	06/13/2015 10:09	1	UX950494.D	DB-624 0.18(mm)
240-51767-C-1 MS		06/13/2015 10:33	50	UX950495.D	DB-624 0.18(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-51849-1

SDG No.:

Project: MRC Block E MPE

Client Sample ID	Lab Sample ID
DSP-5-061015	240-51849-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DSP-5-061015 Lab Sample ID: 240-51849-1

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG ID.:

Matrix: Water Date Sampled: 06/10/2015 11:00

Reporting Basis: WET Date Received: 06/11/2015 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	pH	7.39	0.100	0.100	SU			1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Analyst: LCN Batch Start Date: 06/11/2015

Reporting Units: SU Analytical Batch No.: 184780

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
19	CCV	11:41	pH	7.000					
28	CCV	16:15	pH	7.000	7.00	100	99-101		WCPH7_00073

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

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 184780 Date: 06/11/2015 16:15								
4500 H+ B-2000	DSP-5-061015	240-51849-1	pH	7.39	SU			
4500 H+ B-2000	DSP-5-061015	240-51849-1 DU	pH	7.420	SU	0.4	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 184780	Date: 06/11/2015 11:41										
						LCS Source: WCPHLCS_00010					
4500 H+ B-2000	LCS 240-184780/20	pH	6.150		SU	6.15	100	97-103			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-51849-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-51849-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 06/11/2015 11:41 End Date: 06/11/2015 16:15

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-184780/19	1		11:41	X																			
LCS 240-184780/20	1	T	11:41	X																			
240-51849-1	1	T	16:15	X																			
240-51849-1 DU	1	T	16:15	X																			
CCV 240-184780/28	1		16:15	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Batch Number: 184780 Batch Start Date: 06/11/15 11:41 Batch Analyst: Nolle, Laura C

Batch Method: 4500 H+ B-2000 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-184780/19		4500 H+ B-2000		10 mL	7.00 SU	20.9 Celsius			pH = Read 1
LCS 240-184780/20		4500 H+ B-2000		10 mL	6.15 SU	21.4 Celsius			pH = Read 1
240-51849-D-1	DSP-5-061015	4500 H+ B-2000	T	10 mL	7.39 SU	19.3 Celsius	7.39 SU	19.3 Celsius	Read 2 Pass
240-51849-D-1 DU	DSP-5-061015	4500 H+ B-2000	T	10 mL	7.42 SU	19.3 Celsius	7.42 SU	19.3 Celsius	Read 2 Pass
CCV 240-184780/28		4500 H+ B-2000		10 mL	7.00 SU	20.9 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00073	WCPHLCS 00010				
CCV 240-184780/19		4500 H+ B-2000							
LCS 240-184780/20		4500 H+ B-2000			10 mL				
240-51849-D-1	DSP-5-061015	4500 H+ B-2000	T						
240-51849-D-1 DU	DSP-5-061015	4500 H+ B-2000	T						
CCV 240-184780/28		4500 H+ B-2000		10 mL					

Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1838817
pH Buffer 2 ID	4-1951693
pH Buffer 3 ID	7-1896764
pH Buffer 4 ID	10-1906227
pH Buffer 5 ID	12-1595632
Calibration Date and Time	6/11/15 1144
Electronic Slope	99.7
Instrument ID	Randolph
Probe ID	WCP108
Sufficient volume for sample dup	Y

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-51849-1

SDG No.:

Batch Number: 184780 Batch Start Date: 06/11/15 11:41 Batch Analyst: Nolle, Laura C

Batch Method: 4500 H+ B-2000 Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-51849 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

3.4 | C4.4

North Canton
4101 Shuffel Street, N. W.

North Canton, OH 44720
phone 330.497.9396 fax 330.497.0772

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Chris Pike	Site Contact: Stu Cameron	Date: 6/10/2015	COC No:
Tetra Tech	Tel/Fax: (412) 921-8861	Lab Contact: John McFadden	Carrier: Fedex	1 of 1 COCs
20251 Century Blvd, Suite 200	Analysis Turnaround Time			Job No. 112IC04769 - 31
Germantown, MD 20874	Calendar (C) or Work Days (W) _____			SDG No.
(301) 528-3002 Phone	TAT if different from Below: 5 DAYS			
(301) 528-3000 FAX	☐ 2 weeks			Sampler: S. Cameron
Project Name: MPE	☐ 1 week			
Site: Block E, Middle River, Maryland	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type	Matrix	# of Cont.	Filtered Sample	VOCs - PP	pH	Sample Specific Notes:
DSP-5-061015	6/10/2015	1100	Grab	Water	4	N	x	x	No Preservatives

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Baltimore
180325

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

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:

	Company:	Date/Time:		Company:	Date/Time:
Relinquished by:	Tetra Tech	6-10-15/1517	Received by:	TestAmerica	6/10/15 / 1515
Relinquished by:	TestAmerica	6/10/15/2200	Received by:	TA-C	6/11/15 940
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative Login # : 51849
Canton Facility

Client Tetra Tech Site Name

Cooler unpacked by:

Cooler Received on 6/11/15 Opened on 6/11/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A (CF +1.0 °C) Observed Cooler Temp. 3.4 °C Corrected Cooler Temp. 4.4 °C

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

☐ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
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 correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC432654
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # Yes No

Contacted PM Date by via Verbal Voice Mail Other
Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) 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 the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

6/17/2015 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-52142-1

Job Description: MPE

For:
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Pittsburgh, PA 15220-2745

Attention: Chris Pike



Approved for release.
John McFadden
Project Manager I
6/25/2015 8:38 AM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
06/25/2015

cc: Tony Apanavage
Samantha Brenner
Kelly Carper
Tobrena Sedlmyer

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MPE

Report Number: 240-52142-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 6/18/2015 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.6º C and 3.6º C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TB-061715 (240-52142-1), MPE-1-061715 (240-52142-2), MPE-3-061715 (240-52142-3), MPE-4-061715 (240-52142-4) and WSP-1-061715 (240-52142-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 06/23/2015.

Acetone was detected in method blank MB 240-186324/31 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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

Samples MPE-1-061715 (240-52142-2)[1428.57X], MPE-3-061715 (240-52142-3)[250X], MPE-4-061715 (240-52142-4)[833.33X] and WSP-1-061715 (240-52142-5)[714.29X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The continuing calibration verification (CCV) for analytical batch 186324 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detects for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required. Batch includes: TB-061715 (240-52142-1), MPE-1-061715 (240-52142-2), MPE-3-061715 (240-52142-3), MPE-4-061715 (240-52142-4) and WSP-1-061715 (240-52142-5).

The laboratory control sample (LCS) for 186324 recovered outside control limits for multiple analytes: 1,2,3-Trichlorobenzene, 1,2-Dibromo-3-Chloropropane and trans-1,3-Dichloropropene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.TB-061715 (240-52142-1), MPE-1-061715 (240-52142-2), MPE-3-061715 (240-52142-3), MPE-4-061715 (240-52142-4), WSP-1-061715 (240-52142-5) and (LCS 240-186324/4)

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample. The following samples were acid preserved: TB-061715 (240-52142-1), MPE-1-061715 (240-52142-2) and MPE-3-061715 (240-52142-3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-52142-1	TB-061715	Water	06/17/2015 0000	06/18/2015 0920
240-52142-2	MPE-1-061715	Water	06/17/2015 1340	06/18/2015 0920
240-52142-3	MPE-3-061715	Water	06/17/2015 1342	06/18/2015 0920
240-52142-4	MPE-4-061715	Water	06/17/2015 1343	06/18/2015 0920
240-52142-5	WSP-1-061715	Water	06/17/2015 1350	06/18/2015 0920

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-52142-1	**TB-061715**					
Acetone		1.6	J B	10	ug/L	8260C
240-52142-2	**MPE-1-061715**					
Acetone		3100	J B	14000	ug/L	8260C
Trichloroethene		44000		1400	ug/L	8260C
240-52142-3	**MPE-3-061715**					
Acetone		620	J B	2500	ug/L	8260C
Trichloroethene		6300	F1	250	ug/L	8260C
240-52142-4	**MPE-4-061715**					
Acetone		1900	J B	8300	ug/L	8260C
Trichloroethene		25000		830	ug/L	8260C
240-52142-5	**WSP-1-061715**					
Acetone		2100	J B	7100	ug/L	8260C
Trichloroethene		24000		710	ug/L	8260C

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL CAN	SW846 8260C	
Purge and Trap	TAL CAN		SW846 5030C

Lab References:

TAL CAN = TestAmerica Canton

Method References:

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Method	Analyst	Analyst ID
SW846 8260C	Evans, Laura	LEE

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Client Sample ID: **TB-061715**

Lab Sample ID: 240-52142-1 Date Sampled: 06/17/2015 0000
Client Matrix: Water Date Received: 06/18/2015 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ7238.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1450			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1450				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.42	U	0.42	1.0
1,2,3-Trichlorobenzene	0.37	U *	0.37	1.0
1,2,3-Trichloropropane	0.44	U	0.44	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U *	0.82	2.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,3-Dichloropropane	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	0.53	U	0.53	10
2-Chloroethyl vinyl ether	0.59	U	0.59	10
2-Chlorotoluene	0.40	U	0.40	1.0
2-Hexanone	0.48	U	0.48	10
4-Chlorotoluene	0.29	U	0.29	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	0.99	U	0.99	10
Acetone	1.6	J B	0.94	10
Benzene	0.35	U	0.35	1.0
Bromobenzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	1.0
Carbon disulfide	0.38	U	0.38	1.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	1.0
Chloroform	0.25	U	0.25	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.42	U	0.42	1.0
Bromochloromethane	0.50	U	0.50	1.0
Dichlorodifluoromethane	0.32	U	0.32	1.0
Bromodichloromethane	0.29	U	0.29	1.0
tert-Butyl alcohol	4.9	U	4.9	50

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Client Sample ID: TB-061715

Lab Sample ID: 240-52142-1 Date Sampled: 06/17/2015 0000
Client Matrix: Water Date Received: 06/18/2015 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ7238.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1450			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1450				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	0.25	U	0.25	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.50	U	0.50	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.20	U	0.20	1.0
Methylene Chloride	0.33	U	0.33	1.0
m-Xylene & p-Xylene	0.24	U	0.24	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.31	U	0.31	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.25	U	0.25	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.30	U	0.30	5.0
Ethyl tert-butyl ether	0.23	U	0.23	5.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	1.0
trans-1,3-Dichloropropene	0.56	U *	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.52	U	0.52	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.32	U	0.32	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	109		74 - 120
Dibromofluoromethane (Surr)	107		75 - 121
4-Bromofluorobenzene (Surr)	91		66 - 120
1,2-Dichloroethane-d4 (Surr)	107		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Client Sample ID: **MPE-1-061715**

Lab Sample ID: 240-52142-2 Date Sampled: 06/17/2015 1340
Client Matrix: Water Date Received: 06/18/2015 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ7239.D
Dilution:	1428.57			Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1513			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1513				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	400	U	400	1400
1,1,1-Trichloroethane	630	U	630	1400
1,1,2,2-Tetrachloroethane	310	U	310	1400
1,1,2-Trichlorotrifluoroethane	640	U	640	1400
1,1-Dichloroethane	430	U	430	1400
1,1-Dichloroethene	640	U	640	1400
1,1-Dichloropropene	600	U	600	1400
1,2,3-Trichlorobenzene	530	U *	530	1400
1,2,3-Trichloropropane	630	U	630	1400
1,2,3-Trimethylbenzene	670	U	670	7100
1,2,4-Trichlorobenzene	460	U	460	1400
1,2,4-Trimethylbenzene	590	U	590	1400
1,2-Dibromo-3-Chloropropane	1200	U *	1200	2900
1,2-Dichlorobenzene	360	U	360	1400
1,2-Dichloroethane	330	U	330	1400
1,2-Dichloropropane	360	U	360	1400
1,3-Dichlorobenzene	270	U	270	1400
1,3-Dichloropropane	270	U	270	1400
1,4-Dichlorobenzene	390	U	390	1400
2,2-Dichloropropane	370	U	370	1400
2-Butanone (MEK)	760	U	760	14000
2-Chloroethyl vinyl ether	840	U	840	14000
2-Chlorotoluene	570	U	570	1400
2-Hexanone	690	U	690	14000
4-Chlorotoluene	410	U	410	1400
4-Isopropyltoluene	610	U	610	1400
4-Methyl-2-pentanone (MIBK)	1400	U	1400	14000
Acetone	3100	J B	1300	14000
Benzene	500	U	500	1400
Bromobenzene	500	U	500	1400
Bromoform	800	U	800	1400
Bromomethane	630	U	630	1400
Carbon disulfide	540	U	540	1400
Carbon tetrachloride	610	U	610	1400
Chlorobenzene	360	U	360	1400
Chlorodibromomethane	610	U	610	1400
Chloroethane	460	U	460	1400
Chloroform	360	U	360	1400
Chloromethane	630	U	630	1400
cis-1,2-Dichloroethene	370	U	370	1400
cis-1,3-Dichloropropene	660	U	660	1400
Dibromomethane	600	U	600	1400
Bromochloromethane	710	U	710	1400
Dichlorodifluoromethane	460	U	460	1400
Bromodichloromethane	410	U	410	1400
tert-Butyl alcohol	7000	U	7000	71000

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Client Sample ID: **MPE-1-061715**

Lab Sample ID: 240-52142-2 Date Sampled: 06/17/2015 1340
Client Matrix: Water Date Received: 06/18/2015 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ7239.D
Dilution:	1428.57			Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1513			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1513				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	360	U	360	1400
Hexachlorobutadiene	500	U	500	1400
Diisopropyl ether	710	U	710	14000
Isopropylbenzene	500	U	500	1400
Methyl tert-butyl ether	290	U	290	1400
Methylene Chloride	470	U	470	1400
m-Xylene & p-Xylene	340	U	340	2900
Naphthalene	640	U	640	1400
n-Butylbenzene	440	U	440	1400
N-Propylbenzene	570	U	570	1400
o-Xylene	360	U	360	1400
sec-Butylbenzene	690	U	690	1400
Styrene	640	U	640	1400
Tert-amyl methyl ether	430	U	430	7100
Ethyl tert-butyl ether	330	U	330	7100
Tetrachloroethene	440	U	440	1400
Toluene	330	U	330	1400
trans-1,2-Dichloroethene	430	U	430	1400
trans-1,3-Dichloropropene	800	U *	800	1400
Trichloroethene	44000		310	1400
Trichlorofluoromethane	700	U	700	1400
Vinyl acetate	590	U	590	2900
Vinyl chloride	410	U	410	1400
Xylenes, Total	740	U	740	2900
tert-Butylbenzene	590	U	590	1400
1,2-Dibromoethane	460	U	460	1400

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	114		74 - 120
Dibromofluoromethane (Surr)	109		75 - 121
4-Bromofluorobenzene (Surr)	91		66 - 120
1,2-Dichloroethane-d4 (Surr)	112		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Client Sample ID: **MPE-3-061715**

Lab Sample ID: 240-52142-3 Date Sampled: 06/17/2015 1342
Client Matrix: Water Date Received: 06/18/2015 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ7240.D
Dilution:	250			Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1535			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1535				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	70	U	70	250
1,1,1-Trichloroethane	110	U	110	250
1,1,2,2-Tetrachloroethane	55	U	55	250
1,1,2-Trichlorotrifluoroethane	110	U F1	110	250
1,1-Dichloroethane	75	U	75	250
1,1-Dichloroethene	110	U	110	250
1,1-Dichloropropene	110	U	110	250
1,2,3-Trichlorobenzene	93	U *	93	250
1,2,3-Trichloropropane	110	U	110	250
1,2,3-Trimethylbenzene	120	U	120	1300
1,2,4-Trichlorobenzene	80	U	80	250
1,2,4-Trimethylbenzene	100	U	100	250
1,2-Dibromo-3-Chloropropane	210	U *	210	500
1,2-Dichlorobenzene	63	U	63	250
1,2-Dichloroethane	58	U	58	250
1,2-Dichloropropane	63	U	63	250
1,3-Dichlorobenzene	48	U	48	250
1,3-Dichloropropane	48	U	48	250
1,4-Dichlorobenzene	68	U	68	250
2,2-Dichloropropane	65	U	65	250
2-Butanone (MEK)	130	U	130	2500
2-Chloroethyl vinyl ether	150	U	150	2500
2-Chlorotoluene	100	U	100	250
2-Hexanone	120	U	120	2500
4-Chlorotoluene	73	U	73	250
4-Isopropyltoluene	110	U	110	250
4-Methyl-2-pentanone (MIBK)	250	U	250	2500
Acetone	620	J B	240	2500
Benzene	88	U	88	250
Bromobenzene	88	U	88	250
Bromoform	140	U	140	250
Bromomethane	110	U	110	250
Carbon disulfide	95	U	95	250
Carbon tetrachloride	110	U	110	250
Chlorobenzene	63	U	63	250
Chlorodibromomethane	110	U	110	250
Chloroethane	80	U	80	250
Chloroform	63	U	63	250
Chloromethane	110	U	110	250
cis-1,2-Dichloroethene	65	U	65	250
cis-1,3-Dichloropropene	120	U	120	250
Dibromomethane	110	U	110	250
Bromochloromethane	130	U	130	250
Dichlorodifluoromethane	80	U	80	250
Bromodichloromethane	73	U	73	250
tert-Butyl alcohol	1200	U	1200	13000

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Client Sample ID: **MPE-3-061715**

Lab Sample ID: 240-52142-3 Date Sampled: 06/17/2015 1342
Client Matrix: Water Date Received: 06/18/2015 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ7240.D
Dilution:	250			Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1535			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1535				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	63	U	63	250
Hexachlorobutadiene	88	U	88	250
Diisopropyl ether	130	U	130	2500
Isopropylbenzene	88	U	88	250
Methyl tert-butyl ether	50	U	50	250
Methylene Chloride	83	U	83	250
m-Xylene & p-Xylene	60	U	60	500
Naphthalene	110	U	110	250
n-Butylbenzene	78	U	78	250
N-Propylbenzene	100	U	100	250
o-Xylene	63	U F1	63	250
sec-Butylbenzene	120	U	120	250
Styrene	110	U	110	250
Tert-amyl methyl ether	75	U	75	1300
Ethyl tert-butyl ether	58	U	58	1300
Tetrachloroethene	78	U F1	78	250
Toluene	58	U	58	250
trans-1,2-Dichloroethene	75	U	75	250
trans-1,3-Dichloropropene	140	U *	140	250
Trichloroethene	6300	F1	55	250
Trichlorofluoromethane	120	U	120	250
Vinyl acetate	100	U	100	500
Vinyl chloride	73	U	73	250
Xylenes, Total	130	U F1	130	500
tert-Butylbenzene	100	U	100	250
1,2-Dibromoethane	80	U	80	250

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	113		74 - 120
Dibromofluoromethane (Surr)	111		75 - 121
4-Bromofluorobenzene (Surr)	94		66 - 120
1,2-Dichloroethane-d4 (Surr)	111		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Client Sample ID: MPE-4-061715

Lab Sample ID: 240-52142-4 Date Sampled: 06/17/2015 1343
Client Matrix: Water Date Received: 06/18/2015 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ7241.D
Dilution:	833.33			Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1558			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1558				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	230	U	230	830
1,1,1-Trichloroethane	370	U	370	830
1,1,2,2-Tetrachloroethane	180	U	180	830
1,1,2-Trichlorotrifluoroethane	370	U	370	830
1,1-Dichloroethane	250	U	250	830
1,1-Dichloroethene	370	U	370	830
1,1-Dichloropropene	350	U	350	830
1,2,3-Trichlorobenzene	310	U *	310	830
1,2,3-Trichloropropane	370	U	370	830
1,2,3-Trimethylbenzene	390	U	390	4200
1,2,4-Trichlorobenzene	270	U	270	830
1,2,4-Trimethylbenzene	340	U	340	830
1,2-Dibromo-3-Chloropropane	680	U *	680	1700
1,2-Dichlorobenzene	210	U	210	830
1,2-Dichloroethane	190	U	190	830
1,2-Dichloropropane	210	U	210	830
1,3-Dichlorobenzene	160	U	160	830
1,3-Dichloropropane	160	U	160	830
1,4-Dichlorobenzene	220	U	220	830
2,2-Dichloropropane	220	U	220	830
2-Butanone (MEK)	440	U	440	8300
2-Chloroethyl vinyl ether	490	U	490	8300
2-Chlorotoluene	330	U	330	830
2-Hexanone	400	U	400	8300
4-Chlorotoluene	240	U	240	830
4-Isopropyltoluene	360	U	360	830
4-Methyl-2-pentanone (MIBK)	820	U	820	8300
Acetone	1900	J B	780	8300
Benzene	290	U	290	830
Bromobenzene	290	U	290	830
Bromoform	470	U	470	830
Bromomethane	370	U	370	830
Carbon disulfide	320	U	320	830
Carbon tetrachloride	360	U	360	830
Chlorobenzene	210	U	210	830
Chlorodibromomethane	360	U	360	830
Chloroethane	270	U	270	830
Chloroform	210	U	210	830
Chloromethane	370	U	370	830
cis-1,2-Dichloroethene	220	U	220	830
cis-1,3-Dichloropropene	380	U	380	830
Dibromomethane	350	U	350	830
Bromochloromethane	420	U	420	830
Dichlorodifluoromethane	270	U	270	830
Bromodichloromethane	240	U	240	830
tert-Butyl alcohol	4100	U	4100	42000

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Client Sample ID: **MPE-4-061715**

Lab Sample ID: 240-52142-4 Date Sampled: 06/17/2015 1343
Client Matrix: Water Date Received: 06/18/2015 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ7241.D
Dilution:	833.33			Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1558			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1558				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	210	U	210	830
Hexachlorobutadiene	290	U	290	830
Diisopropyl ether	420	U	420	8300
Isopropylbenzene	290	U	290	830
Methyl tert-butyl ether	170	U	170	830
Methylene Chloride	270	U	270	830
m-Xylene & p-Xylene	200	U	200	1700
Naphthalene	370	U	370	830
n-Butylbenzene	260	U	260	830
N-Propylbenzene	330	U	330	830
o-Xylene	210	U	210	830
sec-Butylbenzene	400	U	400	830
Styrene	370	U	370	830
Tert-amyl methyl ether	250	U	250	4200
Ethyl tert-butyl ether	190	U	190	4200
Tetrachloroethene	260	U	260	830
Toluene	190	U	190	830
trans-1,2-Dichloroethene	250	U	250	830
trans-1,3-Dichloropropene	470	U *	470	830
Trichloroethene	25000		180	830
Trichlorofluoromethane	410	U	410	830
Vinyl acetate	340	U	340	1700
Vinyl chloride	240	U	240	830
Xylenes, Total	430	U	430	1700
tert-Butylbenzene	340	U	340	830
1,2-Dibromoethane	270	U	270	830

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	105		74 - 120
Dibromofluoromethane (Surr)	103		75 - 121
4-Bromofluorobenzene (Surr)	86		66 - 120
1,2-Dichloroethane-d4 (Surr)	101		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Client Sample ID: WSP-1-061715

Lab Sample ID: 240-52142-5 Date Sampled: 06/17/2015 1350
Client Matrix: Water Date Received: 06/18/2015 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ7242.D
Dilution:	714.29			Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1621			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1621				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	200	U	200	710
1,1,1-Trichloroethane	310	U	310	710
1,1,2,2-Tetrachloroethane	160	U	160	710
1,1,2-Trichlorotrifluoroethane	320	U	320	710
1,1-Dichloroethane	210	U	210	710
1,1-Dichloroethene	320	U	320	710
1,1-Dichloropropene	300	U	300	710
1,2,3-Trichlorobenzene	260	U *	260	710
1,2,3-Trichloropropane	310	U	310	710
1,2,3-Trimethylbenzene	340	U	340	3600
1,2,4-Trichlorobenzene	230	U	230	710
1,2,4-Trimethylbenzene	290	U	290	710
1,2-Dibromo-3-Chloropropane	590	U *	590	1400
1,2-Dichlorobenzene	180	U	180	710
1,2-Dichloroethane	160	U	160	710
1,2-Dichloropropane	180	U	180	710
1,3-Dichlorobenzene	140	U	140	710
1,3-Dichloropropane	140	U	140	710
1,4-Dichlorobenzene	190	U	190	710
2,2-Dichloropropane	190	U	190	710
2-Butanone (MEK)	380	U	380	7100
2-Chloroethyl vinyl ether	420	U	420	7100
2-Chlorotoluene	290	U	290	710
2-Hexanone	340	U	340	7100
4-Chlorotoluene	210	U	210	710
4-Isopropyltoluene	310	U	310	710
4-Methyl-2-pentanone (MIBK)	710	U	710	7100
Acetone	2100	J B	670	7100
Benzene	250	U	250	710
Bromobenzene	250	U	250	710
Bromoform	400	U	400	710
Bromomethane	310	U	310	710
Carbon disulfide	270	U	270	710
Carbon tetrachloride	310	U	310	710
Chlorobenzene	180	U	180	710
Chlorodibromomethane	310	U	310	710
Chloroethane	230	U	230	710
Chloroform	180	U	180	710
Chloromethane	310	U	310	710
cis-1,2-Dichloroethene	190	U	190	710
cis-1,3-Dichloropropene	330	U	330	710
Dibromomethane	300	U	300	710
Bromochloromethane	360	U	360	710
Dichlorodifluoromethane	230	U	230	710
Bromodichloromethane	210	U	210	710
tert-Butyl alcohol	3500	U	3500	36000

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Client Sample ID: **WSP-1-061715**

Lab Sample ID: 240-52142-5 Date Sampled: 06/17/2015 1350
Client Matrix: Water Date Received: 06/18/2015 0920

8260C Volatile Organic Compounds by GC/MS

Analysis Method:	8260C	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Prep Method:	5030C	Prep Batch:	N/A	Lab File ID:	UXJ7242.D
Dilution:	714.29			Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1621			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1621				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethylbenzene	180	U	180	710
Hexachlorobutadiene	250	U	250	710
Diisopropyl ether	360	U	360	7100
Isopropylbenzene	250	U	250	710
Methyl tert-butyl ether	140	U	140	710
Methylene Chloride	240	U	240	710
m-Xylene & p-Xylene	170	U	170	1400
Naphthalene	320	U	320	710
n-Butylbenzene	220	U	220	710
N-Propylbenzene	290	U	290	710
o-Xylene	180	U	180	710
sec-Butylbenzene	340	U	340	710
Styrene	320	U	320	710
Tert-amyl methyl ether	210	U	210	3600
Ethyl tert-butyl ether	160	U	160	3600
Tetrachloroethene	220	U	220	710
Toluene	160	U	160	710
trans-1,2-Dichloroethene	210	U	210	710
trans-1,3-Dichloropropene	400	U *	400	710
Trichloroethene	24000		160	710
Trichlorofluoromethane	350	U	350	710
Vinyl acetate	290	U	290	1400
Vinyl chloride	210	U	210	710
Xylenes, Total	370	U	370	1400
tert-Butylbenzene	290	U	290	710
1,2-Dibromoethane	230	U	230	710

Surrogate	%Rec	Qualifier	Acceptance Limits
Toluene-d8 (Surr)	117		74 - 120
Dibromofluoromethane (Surr)	117		75 - 121
4-Bromofluorobenzene (Surr)	96		66 - 120
1,2-Dichloroethane-d4 (Surr)	116		63 - 129

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
240-52142-1	TB-061715	107	107	109	91
240-52142-2	MPE-1-061715	109	112	114	91
240-52142-3	MPE-3-061715	111	111	113	94
240-52142-4	MPE-4-061715	103	101	105	86
240-52142-5	WSP-1-061715	117	116	117	96
MB 240-186324/31		109	107	109	91
LCS 240-186324/4		102	102	108	94
240-52142-3 MS	MPE-3-061715 MS	107	103	110	93
240-52142-3 MSD	MPE-3-061715 MSD	110	114	111	97

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Method Blank - Batch: 240-186324

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-186324/31	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ7237.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1427	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1427				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	0.28	U	0.28	1.0
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichlorotrifluoroethane	0.45	U	0.45	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,1-Dichloropropene	0.42	U	0.42	1.0
1,2,3-Trichlorobenzene	0.37	U	0.37	1.0
1,2,3-Trichloropropane	0.44	U	0.44	1.0
1,2,3-Trimethylbenzene	0.47	U	0.47	5.0
1,2,4-Trichlorobenzene	0.32	U	0.32	1.0
1,2,4-Trimethylbenzene	0.41	U	0.41	1.0
1,2-Dibromo-3-Chloropropane	0.82	U	0.82	2.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,3-Dichloropropane	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2,2-Dichloropropane	0.26	U	0.26	1.0
2-Butanone (MEK)	0.53	U	0.53	10
2-Chloroethyl vinyl ether	0.59	U	0.59	10
2-Chlorotoluene	0.40	U	0.40	1.0
2-Hexanone	0.48	U	0.48	10
4-Chlorotoluene	0.29	U	0.29	1.0
4-Isopropyltoluene	0.43	U	0.43	1.0
4-Methyl-2-pentanone (MIBK)	0.99	U	0.99	10
Acetone	2.78	J	0.94	10
Benzene	0.35	U	0.35	1.0
Bromobenzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	1.0
Carbon disulfide	0.38	U	0.38	1.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	1.0
Chloroform	0.25	U	0.25	1.0
Chloromethane	0.44	U	0.44	1.0
cis-1,2-Dichloroethene	0.26	U	0.26	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dibromomethane	0.42	U	0.42	1.0
Bromochloromethane	0.50	U	0.50	1.0
Dichlorodifluoromethane	0.32	U	0.32	1.0
Bromodichloromethane	0.29	U	0.29	1.0

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Method Blank - Batch: 240-186324

Method: 8260C
Preparation: 5030C

Lab Sample ID:	MB 240-186324/31	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ7237.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1427	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1427				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
tert-Butyl alcohol	4.9	U	4.9	50
Ethylbenzene	0.25	U	0.25	1.0
Hexachlorobutadiene	0.35	U	0.35	1.0
Diisopropyl ether	0.50	U	0.50	10
Isopropylbenzene	0.35	U	0.35	1.0
Methyl tert-butyl ether	0.20	U	0.20	1.0
Methylene Chloride	0.33	U	0.33	1.0
m-Xylene & p-Xylene	0.24	U	0.24	2.0
Naphthalene	0.45	U	0.45	1.0
n-Butylbenzene	0.31	U	0.31	1.0
N-Propylbenzene	0.40	U	0.40	1.0
o-Xylene	0.25	U	0.25	1.0
sec-Butylbenzene	0.48	U	0.48	1.0
Styrene	0.45	U	0.45	1.0
Tert-amyl methyl ether	0.30	U	0.30	5.0
Ethyl tert-butyl ether	0.23	U	0.23	5.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	1.0
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	1.0
Vinyl acetate	0.41	U	0.41	2.0
Vinyl chloride	0.29	U	0.29	1.0
Xylenes, Total	0.52	U	0.52	2.0
tert-Butylbenzene	0.41	U	0.41	1.0
1,2-Dibromoethane	0.32	U	0.32	1.0

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	109	74 - 120
Dibromofluoromethane (Surr)	109	75 - 121
4-Bromofluorobenzene (Surr)	91	66 - 120
1,2-Dichloroethane-d4 (Surr)	107	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Lab Control Sample - Batch: 240-186324

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-186324/4	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ7235.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1342	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1342				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	9.67	97	72 - 120	
1,1,1-Trichloroethane	10.0	10.7	107	74 - 120	
1,1,2,2-Tetrachloroethane	10.0	10.9	109	68 - 120	
1,1,2-Trichlorotrifluoroethane	10.0	11.6	116	74 - 151	
1,1-Dichloroethane	10.0	10.4	104	80 - 120	
1,1-Dichloroethene	10.0	9.98	100	78 - 131	
1,1-Dichloropropene	10.0	11.7	117	80 - 120	
1,2,3-Trichlorobenzene	10.0	12.9	129	54 - 126	*
1,2,3-Trichloropropane	10.0	11.8	118	73 - 129	
1,2,4-Trichlorobenzene	10.0	12.0	120	48 - 135	
1,2,4-Trimethylbenzene	10.0	10.8	108	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	14.2	142	42 - 136	*
1,2-Dichlorobenzene	10.0	9.01	90	80 - 120	
1,2-Dichloroethane	10.0	10.6	106	71 - 127	
1,2-Dichloropropane	10.0	10.2	102	80 - 120	
1,3-Dichlorobenzene	10.0	9.07	91	80 - 120	
1,3-Dichloropropane	10.0	9.87	99	79 - 120	
1,4-Dichlorobenzene	10.0	9.27	93	80 - 120	
2,2-Dichloropropane	10.0	10.4	104	50 - 129	
2-Butanone (MEK)	20.0	18.9	95	60 - 126	
2-Chloroethyl vinyl ether	10.0	10.5	105	52 - 131	
2-Chlorotoluene	10.0	11.2	112	76 - 120	
2-Hexanone	20.0	21.9	110	55 - 133	
4-Chlorotoluene	10.0	10.5	105	77 - 120	
4-Isopropyltoluene	10.0	9.96	100	74 - 120	
4-Methyl-2-pentanone (MIBK)	20.0	20.8	104	63 - 128	
Acetone	20.0	19.8	99	43 - 136	
Benzene	10.0	10.2	102	80 - 120	
Bromobenzene	10.0	10.1	101	76 - 120	
Bromoform	10.0	8.56	86	40 - 131	
Bromomethane	10.0	11.4	114	11 - 185	
Carbon disulfide	10.0	10.5	105	62 - 142	
Carbon tetrachloride	10.0	10.1	101	66 - 128	
Chlorobenzene	10.0	9.38	94	80 - 120	
Chlorodibromomethane	10.0	10.1	101	64 - 120	
Chloroethane	10.0	12.0	120	25 - 153	
Chloroform	10.0	10.6	106	79 - 120	
Chloromethane	10.0	9.99	100	44 - 126	
cis-1,2-Dichloroethene	10.0	10.1	101	80 - 120	
cis-1,3-Dichloropropene	10.0	11.2	112	61 - 120	
Dibromomethane	10.0	9.91	99	80 - 120	
Bromochloromethane	10.0	9.53	95	77 - 120	
Dichlorodifluoromethane	10.0	8.92	89	19 - 129	
Bromodichloromethane	10.0	10.6	106	72 - 121	
tert-Butyl alcohol	100	76.2	76	70 - 130	
Ethylbenzene	10.0	9.36	94	80 - 120	

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Lab Control Sample - Batch: 240-186324

Method: 8260C
Preparation: 5030C

Lab Sample ID:	LCS 240-186324/4	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ7235.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 1342	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 1342				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Hexachlorobutadiene	10.0	10.4	104	36 - 134	
Isopropylbenzene	10.0	9.06	91	75 - 120	
Methyl tert-butyl ether	10.0	9.65	96	52 - 144	
Methylene Chloride	10.0	10.1	101	66 - 131	
m-Xylene & p-Xylene	10.0	9.23	92	80 - 120	
Naphthalene	10.0	14.0	140	32 - 141	
n-Butylbenzene	10.0	10.6	106	66 - 125	
N-Propylbenzene	10.0	12.0	120	74 - 121	
o-Xylene	10.0	9.23	92	80 - 120	
sec-Butylbenzene	10.0	10.9	109	70 - 120	
Styrene	10.0	8.48	85	79 - 120	
Tetrachloroethene	10.0	9.03	90	79 - 120	
Toluene	10.0	10.3	103	80 - 120	
trans-1,2-Dichloroethene	10.0	9.80	98	80 - 120	
trans-1,3-Dichloropropene	10.0	12.5	125	58 - 120	*
Trichloroethene	10.0	10.0	100	76 - 120	
Trichlorofluoromethane	10.0	10.5	105	49 - 157	
Vinyl acetate	10.0	12.4	124	46 - 161	
Vinyl chloride	10.0	10.6	106	53 - 127	
Xylenes, Total	20.0	18.5	92	80 - 120	
tert-Butylbenzene	10.0	10.0	100	71 - 120	
1,2-Dibromoethane	10.0	9.75	98	79 - 120	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	108	74 - 120
Dibromofluoromethane (Surr)	102	75 - 121
4-Bromofluorobenzene (Surr)	94	66 - 120
1,2-Dichloroethane-d4 (Surr)	102	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-186324

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-52142-3	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ7258.D
Dilution:	250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 2224			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 2224				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-52142-3	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ7259.D
Dilution:	250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 2246			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 2246				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	81	87	64 - 120	8	30		
1,1,1-Trichloroethane	83	92	68 - 121	10	30		
1,1,2,2-Tetrachloroethane	97	103	63 - 122	6	30		
1,1,2-Trichlorotrifluoroethane	63	80	70 - 152	24	30	F1	
1,1-Dichloroethane	91	100	79 - 120	9	30		
1,1-Dichloroethene	79	86	74 - 135	8	30		
1,1-Dichloropropene	87	95	80 - 120	9	30		
1,2,3-Trichlorobenzene	109	120	45 - 129	9	30		
1,2,3-Trichloropropane	103	109	67 - 132	6	30		
1,2,4-Trichlorobenzene	99	113	38 - 138	13	30		
1,2,4-Trimethylbenzene	84	95	67 - 124	12	30		
1,2-Dibromo-3-Chloropropane	125	121	32 - 139	3	30		
1,2-Dichlorobenzene	78	85	75 - 120	9	30		
1,2-Dichloroethane	95	102	68 - 129	8	30		
1,2-Dichloropropane	91	98	78 - 120	7	30		
1,3-Dichlorobenzene	74	84	73 - 120	12	30		
1,3-Dichloropropane	92	95	74 - 120	4	30		
1,4-Dichlorobenzene	75	83	75 - 120	11	30		
2,2-Dichloropropane	75	83	38 - 127	9	30		
2-Butanone (MEK)	87	89	54 - 129	3	30		
2-Chloroethyl vinyl ether	75	82	10 - 150	9	30	J	J
2-Chlorotoluene	89	101	69 - 120	12	30		
2-Hexanone	93	94	47 - 139	1	30		
4-Chlorotoluene	89	100	71 - 120	12	30		
4-Isopropyltoluene	76	87	64 - 122	14	30		
4-Methyl-2-pentanone (MIBK)	92	94	56 - 131	2	30		
Acetone	68	76	33 - 145	10	30		
Benzene	88	97	72 - 121	9	30		
Bromobenzene	82	93	71 - 120	12	30		
Bromoform	69	74	32 - 128	7	30		
Bromomethane	108	120	10 - 186	11	30		
Carbon disulfide	82	89	57 - 147	8	30		
Carbon tetrachloride	75	83	59 - 129	9	30		

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-186324

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-52142-3	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ7258.D
Dilution:	250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 2224			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 2224				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-52142-3	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ7259.D
Dilution:	250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 2246			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 2246				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Chlorobenzene	80	87	80 - 120	9	30		
Chlorodibromomethane	85	94	56 - 120	9	30		
Chloroethane	104	120	21 - 165	14	30		
Chloroform	94	102	76 - 120	8	30		
Chloromethane	88	95	33 - 132	8	30		
cis-1,2-Dichloroethene	87	96	70 - 120	10	30		
cis-1,3-Dichloropropene	93	102	51 - 120	10	30		
Dibromomethane	86	100	77 - 121	15	30		
Bromochloromethane	84	93	73 - 121	11	30		
Dichlorodifluoromethane	64	68	17 - 128	5	30		
Bromodichloromethane	93	100	67 - 120	8	30		
tert-Butyl alcohol	71	81	70 - 130	13	30		
Ethylbenzene	76	87	75 - 120	14	30		
Hexachlorobutadiene	79	91	27 - 132	15	30		
Isopropylbenzene	70	78	68 - 120	11	30		
Methyl tert-butyl ether	89	94	46 - 144	6	30		
Methylene Chloride	88	98	63 - 128	11	30		
m-Xylene & p-Xylene	76	82	75 - 120	8	30		
Naphthalene	124	139	15 - 158	11	30		
n-Butylbenzene	76	89	56 - 127	16	30		
N-Propylbenzene	88	104	64 - 124	16	30		
o-Xylene	75	80	76 - 120	6	30	F1	
sec-Butylbenzene	80	90	60 - 120	11	30		
Styrene	71	79	71 - 120	11	30		
Tetrachloroethene	67	76	70 - 120	12	30	F1	
Toluene	88	96	78 - 120	9	30		
trans-1,2-Dichloroethene	85	93	80 - 120	9	30		
trans-1,3-Dichloropropene	102	112	46 - 120	8	30		
Trichloroethene	58	83	66 - 120	8	30	F1	
Trichlorofluoromethane	80	84	46 - 157	5	30		
Vinyl acetate	111	120	43 - 157	7	30		
Vinyl chloride	92	100	49 - 130	8	30		
Xylenes, Total	75	81	76 - 120	7	30	F1	

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-186324

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-52142-3	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ7258.D
Dilution:	250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 2224			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 2224				5 mL
Leach Date:	N/A				

MSD Lab Sample ID:	240-52142-3	Analysis Batch:	240-186324	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ7259.D
Dilution:	250	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/23/2015 2246			Final Weight/Volume:	5 mL
Prep Date:	06/23/2015 2246				5 mL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
tert-Butylbenzene	80	93	61 - 120	15	30		
1,2-Dibromoethane	87	91	74 - 120	4	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	110	111	74 - 120
Dibromofluoromethane (Surr)	107	110	75 - 121
4-Bromofluorobenzene (Surr)	93	97	66 - 120
1,2-Dichloroethane-d4 (Surr)	103	114	63 - 129

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-186324

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-52142-3	Units: ug/L	MSD Lab Sample ID:	240-52142-3	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	250		Dilution:	250	
Analysis Date:	06/23/2015 2224		Analysis Date:	06/23/2015 2246	
Prep Date:	06/23/2015 2224		Prep Date:	06/23/2015 2246	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
1,1,1,2-Tetrachloroethane	70	U	2500	2500	2020		2180	
1,1,1-Trichloroethane	110	U	2500	2500	2070		2290	
1,1,2,2-Tetrachloroethane	55	U	2500	2500	2430		2570	
1,1,2-Trichlorotrifluoroethane	110	U	2500	2500	1560	F1	2000	
1,1-Dichloroethane	75	U	2500	2500	2280		2500	
1,1-Dichloroethene	110	U	2500	2500	1980		2150	
1,1-Dichloropropene	110	U	2500	2500	2180		2380	
1,2,3-Trichlorobenzene	93	U	2500	2500	2730		2990	
1,2,3-Trichloropropane	110	U	2500	2500	2580		2730	
1,2,4-Trichlorobenzene	80	U	2500	2500	2480		2820	
1,2,4-Trimethylbenzene	100	U	2500	2500	2100		2370	
1,2-Dibromo-3-Chloropropane	210	U	2500	2500	3140		3040	
1,2-Dichlorobenzene	63	U	2500	2500	1950		2130	
1,2-Dichloroethane	58	U	2500	2500	2370		2560	
1,2-Dichloropropane	63	U	2500	2500	2280		2450	
1,3-Dichlorobenzene	48	U	2500	2500	1860		2090	
1,3-Dichloropropane	48	U	2500	2500	2290		2380	
1,4-Dichlorobenzene	68	U	2500	2500	1860		2070	
2,2-Dichloropropane	65	U	2500	2500	1880		2060	
2-Butanone (MEK)	130	U	5000	5000	4340		4450	
2-Chloroethyl vinyl ether	150	U	2500	2500	1870	J	2050	J
2-Chlorotoluene	100	U	2500	2500	2230		2520	
2-Hexanone	120	U	5000	5000	4650		4690	
4-Chlorotoluene	73	U	2500	2500	2220		2510	
4-Isopropyltoluene	110	U	2500	2500	1910		2190	
4-Methyl-2-pentanone (MIBK)	250	U	5000	5000	4590		4700	
Acetone	620	J	5000	5000	4000		4410	
Benzene	88	U	2500	2500	2200		2410	
Bromobenzene	88	U	2500	2500	2050		2320	
Bromoform	140	U	2500	2500	1720		1840	
Bromomethane	110	U	2500	2500	2690		2990	
Carbon disulfide	95	U	2500	2500	2050		2220	
Carbon tetrachloride	110	U	2500	2500	1890		2070	
Chlorobenzene	63	U	2500	2500	1990		2180	
Chlorodibromomethane	110	U	2500	2500	2130		2340	
Chloroethane	80	U	2500	2500	2610		2990	
Chloroform	63	U	2500	2500	2340		2540	
Chloromethane	110	U	2500	2500	2200		2380	
cis-1,2-Dichloroethene	65	U	2500	2500	2180		2400	
cis-1,3-Dichloropropene	120	U	2500	2500	2330		2560	
Dibromomethane	110	U	2500	2500	2150		2490	
Bromochloromethane	130	U	2500	2500	2100		2340	
Dichlorodifluoromethane	80	U	2500	2500	1610		1690	

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-186324

Method: 8260C
Preparation: 5030C

MS Lab Sample ID:	240-52142-3	Units: ug/L	MSD Lab Sample ID:	240-52142-3	
Client Matrix:	Water		Client Matrix:	Water	
Dilution:	250		Dilution:	250	
Analysis Date:	06/23/2015 2224		Analysis Date:	06/23/2015 2246	
Prep Date:	06/23/2015 2224		Prep Date:	06/23/2015 2246	
Leach Date:	N/A		Leach Date:	N/A	

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual
Bromodichloromethane	73	U	2500	2500	2320		2510
tert-Butyl alcohol	1200	U	25000	25000	17700		20200
Ethylbenzene	63	U	2500	2500	1890		2170
Hexachlorobutadiene	88	U	2500	2500	1960		2270
Isopropylbenzene	88	U	2500	2500	1740		1940
Methyl tert-butyl ether	50	U	2500	2500	2220		2360
Methylene Chloride	83	U	2500	2500	2210		2460
m-Xylene & p-Xylene	60	U	2500	2500	1890		2060
Naphthalene	110	U	2500	2500	3110		3480
n-Butylbenzene	78	U	2500	2500	1890		2220
N-Propylbenzene	100	U	2500	2500	2210		2590
o-Xylene	63	U	2500	2500	1880	F1	1990
sec-Butylbenzene	120	U	2500	2500	2010		2240
Styrene	110	U	2500	2500	1770		1970
Tetrachloroethene	78	U	2500	2500	1680	F1	1890
Toluene	58	U	2500	2500	2200		2400
trans-1,2-Dichloroethene	75	U	2500	2500	2130		2330
trans-1,3-Dichloropropene	140	U	2500	2500	2560		2790
Trichloroethene	6300		2500	2500	7740	F1	8350
Trichlorofluoromethane	120	U	2500	2500	2000		2090
Vinyl acetate	100	U	2500	2500	2780		2990
Vinyl chloride	73	U	2500	2500	2310		2490
Xylenes, Total	130	U	5000	5000	3770	F1	4050
tert-Butylbenzene	100	U	2500	2500	2000		2310
1,2-Dibromoethane	80	U	2500	2500	2170		2260

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD is outside acceptance limits.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Tetra Tech, Inc. Job Number: 240-52142-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-186324					
LCS 240-186324/4	Lab Control Sample	T	Water	8260C	
MB 240-186324/31	Method Blank	T	Water	8260C	
240-52142-1	TB-061715	T	Water	8260C	
240-52142-2	MPE-1-061715	T	Water	8260C	
240-52142-3	MPE-3-061715	T	Water	8260C	
240-52142-3MS	Matrix Spike	T	Water	8260C	
240-52142-3MSD	Matrix Spike Duplicate	T	Water	8260C	
240-52142-4	MPE-4-061715	T	Water	8260C	
240-52142-5	WSP-1-061715	T	Water	8260C	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Laboratory Chronicle

Lab ID: 240-52142-1 **Client ID: TB-061715**

Sample Date/Time: 06/17/2015 00:00 Received Date/Time: 06/18/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-52142-A-1		240-186324		06/23/2015 14:50	1	TAL CAN	LEE
A:8260C	240-52142-A-1		240-186324		06/23/2015 14:50	1	TAL CAN	LEE

Lab ID: 240-52142-2 **Client ID: MPE-1-061715**

Sample Date/Time: 06/17/2015 13:40 Received Date/Time: 06/18/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-52142-B-2		240-186324		06/23/2015 15:13	1428.57	TAL CAN	LEE
A:8260C	240-52142-B-2		240-186324		06/23/2015 15:13	1428.57	TAL CAN	LEE

Lab ID: 240-52142-3 **Client ID: MPE-3-061715**

Sample Date/Time: 06/17/2015 13:42 Received Date/Time: 06/18/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-52142-B-3		240-186324		06/23/2015 15:35	250	TAL CAN	LEE
A:8260C	240-52142-B-3		240-186324		06/23/2015 15:35	250	TAL CAN	LEE

Lab ID: 240-52142-3 MS **Client ID: MPE-3-061715**

Sample Date/Time: 06/17/2015 13:42 Received Date/Time: 06/18/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-52142-B-3 MS		240-186324		06/23/2015 22:24	250	TAL CAN	LEE
A:8260C	240-52142-B-3 MS		240-186324		06/23/2015 22:24	250	TAL CAN	LEE

Lab ID: 240-52142-3 MSD **Client ID: MPE-3-061715**

Sample Date/Time: 06/17/2015 13:42 Received Date/Time: 06/18/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-52142-B-3 MSD		240-186324		06/23/2015 22:46	250	TAL CAN	LEE
A:8260C	240-52142-B-3 MSD		240-186324		06/23/2015 22:46	250	TAL CAN	LEE

Lab ID: 240-52142-4 **Client ID: MPE-4-061715**

Sample Date/Time: 06/17/2015 13:43 Received Date/Time: 06/18/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-52142-B-4		240-186324		06/23/2015 15:58	833.33	TAL CAN	LEE
A:8260C	240-52142-B-4		240-186324		06/23/2015 15:58	833.33	TAL CAN	LEE

Client: Tetra Tech, Inc. Job Number: 240-52142-1

Laboratory Chronicle

Lab ID: 240-52142-5 **Client ID: WSP-1-061715**

Sample Date/Time: 06/17/2015 13:50 Received Date/Time: 06/18/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	240-52142-B-5		240-186324		06/23/2015 16:21	714.29	TAL CAN	LEE
A:8260C	240-52142-B-5		240-186324		06/23/2015 16:21	714.29	TAL CAN	LEE

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	MB 240-186324/31		240-186324		06/23/2015 14:27	1	TAL CAN	LEE
A:8260C	MB 240-186324/31		240-186324		06/23/2015 14:27	1	TAL CAN	LEE

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030C	LCS 240-186324/4		240-186324		06/23/2015 13:42	1	TAL CAN	LEE
A:8260C	LCS 240-186324/4		240-186324		06/23/2015 13:42	1	TAL CAN	LEE

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VM50IS_00048	08/06/15	02/05/15	MEOH, Lot 85233	100 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	50 ug/mL
							Chlorobenzene-d5	50 ug/mL
							Fluorobenzene	50 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00205	06/22/15	06/15/15	MEOH, Lot na	2 mL	vm50ss_stk_00065	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Dibromofluoromethane (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Dibromofluoromethane (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00104	06/20/15	06/13/15	MEOH, Lot na	3 mL	VMACROLSTD_00026	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00026	07/29/15	05/29/15	MEOH, Lot +161620000085233JB	20 mL	VM568720_00007	0.25 mL	Acrolein	250 ug/mL
..VM568720_00007	07/31/15		restek, Lot A0109948		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASA9W_00060	06/17/15	06/10/15	MEOH, Lot NA	2 mL	VMFASA9_00004	2 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMFASA9_00004	06/30/15	02/06/15	MEOH, Lot 0000085233	100 mL	vm568722S_00002	2.5 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723S_00001	2.5 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..vm568722S_00002	06/30/15		restek, Lot A0100258		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723S_00001	04/30/16		restek, Lot A0102749		(Purchased Reagent)		Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMFASGW_00099	06/22/15	06/15/15	MEOH, Lot NA	2 mL	VMFASG_00030	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00030	07/06/15	06/06/15	MEOH, Lot 0000085233	50 mL	VM567645S_00015	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00015	08/31/15		Restek, Lot A097497		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASGW_00100	06/30/15	06/23/15	MEOH, Lot NA	2 mL	VMFASG_00030	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00030	07/06/15	06/06/15	MEOH, Lot 0000085233	50 mL	VM567645S_00015	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00015	08/31/15		Restek, Lot A097497		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Chloromethane	2000 ug/mL
							Dichlorodifluoromethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00103	06/22/15	06/15/15	MEOH, Lot n/a	2 mL	VMRFASP_00021	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
							Vinyl acetate	50 ug/mL
.VMRFASP_00021	07/31/15	05/29/15	MEOH, Lot 0000085233	100 mL	VM567641S_00007	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM569723S_00002	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00001	1 mL	Vinyl acetate	50 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM569723S_00002	03/31/18		Restek, Lot A0110013		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00001	07/31/15		Restek, Lot A0108224		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VMFASPW_00104	06/30/15	06/23/15	MEOH, Lot n/a	2 mL	VMRFASP_00021	2 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
							Vinyl acetate	50 ug/mL
.VMRFASP_00021	07/31/15	05/29/15	MEOH, Lot 0000085233	100 mL	VM567641S_00007	2.5 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642S_00005	1 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM569723S_00002	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
					VM569724S_00001	1 mL	Vinyl acetate	50 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642S_00005	02/29/16		Restek, Lot A093472		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM569723S_00002	03/31/18		Restek, Lot A0110013		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
..VM569724S_00001	07/31/15		Restek, Lot A0108224		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VMRA9W_00109	06/17/15	06/10/15	MEOH, Lot NA	1 mL	VMRA9_00012	1 mL	Cyclohexanone	500 ug/mL
							2-Methylnaphthalene	100 ug/mL
							1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							n-Butyl acetate	50 ug/mL
							Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00012	06/30/15	02/28/15	MEOH, Lot 0000085233	50 mL	VM567648_00014	1.25 mL	Cyclohexanone	500 ug/mL
					vm567719_00021	2.5 mL	2-Methylnaphthalene	100 ug/mL
					vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
							1,3,5-Trichlorobenzene	50 ug/mL
							1-Chlorohexane	50 ug/mL
							2-Chloro-1,3-butadiene	50 ug/mL
							2-Nitropropane	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	100 ug/mL
							Ethyl acrylate	50 ug/mL
							Methacrylonitrile	500 ug/mL
							Methyl methacrylate	100 ug/mL
							n-Butanol	1250 ug/mL
							n-Butyl acetate	50 ug/mL
					VM568723_00001	1.25 mL	Acetonitrile	500 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Propionitrile	500 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..VM567648_00014	02/29/16		Restek, Lot A093361		(Purchased Reagent)		Cyclohexanone	20000 ug/mL
..vm567719_00021	01/31/16		Restek, Lot A0100744		(Purchased Reagent)		2-Methylnaphthalene	2000 ug/mL
..vm568722_00002	06/30/15		restek, Lot A0100262		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
							1,3,5-Trichlorobenzene	2000 ug/mL
							1-Chlorohexane	2000 ug/mL
							2-Chloro-1,3-butadiene	2000 ug/mL
							2-Nitropropane	4000 ug/mL
							Ethyl acetate	4000 ug/mL
							Ethyl acrylate	2000 ug/mL
							Methacrylonitrile	20000 ug/mL
							Methyl methacrylate	4000 ug/mL
							n-Butanol	50000 ug/mL
							n-Butyl acetate	2000 ug/mL
..VM568723_00001	12/31/15		restek, Lot A099930		(Purchased Reagent)		Acetonitrile	20000 ug/mL
							Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Propionitrile	20000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRA9W_00110	06/25/15	06/18/15	MEOH, Lot NA	1 mL	VMRA9_00012	1 mL	1,2,3-Trimethylbenzene	50 ug/mL
							Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
.VMRA9_00012	06/30/15	02/28/15	MEOH, Lot 0000085233	50 mL	vm568722_00002	1.25 mL	1,2,3-Trimethylbenzene	50 ug/mL
					VM568723_00001	1.25 mL	Diisopropyl ether	50 ug/mL
							Ethyl tert-butyl ether	50 ug/mL
							Tert-amyl methyl ether	50 ug/mL
..vm568722_00002	06/30/15		restek, Lot A0100262		(Purchased Reagent)		1,2,3-Trimethylbenzene	2000 ug/mL
..VM568723_00001	12/31/15		restek, Lot A099930		(Purchased Reagent)		Diisopropyl ether	2000 ug/mL
							Ethyl tert-butyl ether	2000 ug/mL
							Tert-amyl methyl ether	2000 ug/mL
VMRGAS_00105	06/18/15	06/11/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Butadiene	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Butadiene	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00107	06/26/15	06/19/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00133	06/20/15	06/13/15	MEOH, Lot NA	1 mL	VMRPRIM_00012	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
.VMRPRIM_00012	08/31/15	05/27/15	MEOH, Lot +161620000085233JB	50 mL	VM567641_00013	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							1,4-Dioxane	1000 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							3-Chloro-1-propene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethyl ether	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							n-Heptane	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Tetrahydrofuran	100 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00015	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00001	0.5 mL	Vinyl acetate	50 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							1,4-Dioxane	40000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							3-Chloro-1-propene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							n-Heptane	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Tetrahydrofuran	4000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00015	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM569724_00001	08/31/15		Restek, Lot A0109190		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VMRPRIMW_00135	06/24/15	06/17/15	MEOH, Lot NA	1 mL	VMRPRIM_00012	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
.VMRPRIM_00012	08/31/15	05/27/15	MEOH, Lot +161620000085233JB	50 mL	VM567641_00013	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichlorotrifluoroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dibromoethane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromochloromethane	50 ug/mL
							Bromodichloromethane	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dibromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butyl alcohol	500 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							Xylenes, Total	100 ug/mL
					VM567642_00015	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00001	0.5 mL	Vinyl acetate	50 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichlorotrifluoroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dibromoethane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromochloromethane	2000 ug/mL
							Bromodichloromethane	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butyl alcohol	20000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
							Xylenes, Total	4000 ug/mL
..VM567642_00015	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM569724_00001	08/31/15		Restek, Lot A0109190		(Purchased Reagent)		Vinyl acetate	5000 ug/mL

Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MPE

TestAmerica Job ID: 240-52142-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Florida	NELAP	4	E87225
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	Kentucky (WW)	State Program	4	98016
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Oregon	NELAP	10	4062
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260C

Volatile Organic Compounds (GC/MS) by Method 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

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-061715	240-52142-1	107	107	109	91
MPE-1-061715	240-52142-2	109	112	114	91
MPE-3-061715	240-52142-3	111	111	113	94
MPE-4-061715	240-52142-4	103	101	105	86
WSP-1-061715	240-52142-5	117	116	117	96
	MB 240-186324/31	109	107	109	91
	LCS 240-186324/4	102	102	108	94
MPE-3-061715 MS	240-52142-3 MS	107	103	110	93
MPE-3-061715 MSD	240-52142-3 MSD	110	114	111	97

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	75-121
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
TOL = Toluene-d8 (Surr)	74-120
BFB = 4-Bromofluorobenzene (Surr)	66-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ7235.D

Lab ID: LCS 240-186324/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	10.0	9.67	97	72-120	
1,1,1-Trichloroethane	10.0	10.7	107	74-120	
1,1,2,2-Tetrachloroethane	10.0	10.9	109	68-120	
1,1,2-Trichlorotrifluoroethane	10.0	11.6	116	74-151	
1,1-Dichloroethane	10.0	10.4	104	80-120	
1,1-Dichloroethene	10.0	9.98	100	78-131	
1,1-Dichloropropene	10.0	11.7	117	80-120	
1,2,3-Trichlorobenzene	10.0	12.9	129	54-126	*
1,2,3-Trichloropropane	10.0	11.8	118	73-129	
1,2,4-Trichlorobenzene	10.0	12.0	120	48-135	
1,2,4-Trimethylbenzene	10.0	10.8	108	76-120	
1,2-Dibromo-3-Chloropropane	10.0	14.2	142	42-136	*
1,2-Dichlorobenzene	10.0	9.01	90	80-120	
1,2-Dichloroethane	10.0	10.6	106	71-127	
1,2-Dichloropropane	10.0	10.2	102	80-120	
1,3-Dichlorobenzene	10.0	9.07	91	80-120	
1,3-Dichloropropane	10.0	9.87	99	79-120	
1,4-Dichlorobenzene	10.0	9.27	93	80-120	
2,2-Dichloropropane	10.0	10.4	104	50-129	
2-Butanone (MEK)	20.0	18.9	95	60-126	
2-Chloroethyl vinyl ether	10.0	10.5	105	52-131	
2-Chlorotoluene	10.0	11.2	112	76-120	
2-Hexanone	20.0	21.9	110	55-133	
4-Chlorotoluene	10.0	10.5	105	77-120	
4-Isopropyltoluene	10.0	9.96	100	74-120	
4-Methyl-2-pentanone (MIBK)	20.0	20.8	104	63-128	
Acetone	20.0	19.8	99	43-136	
Benzene	10.0	10.2	102	80-120	
Bromobenzene	10.0	10.1	101	76-120	
Bromoform	10.0	8.56	86	40-131	
Bromomethane	10.0	11.4	114	11-185	
Carbon disulfide	10.0	10.5	105	62-142	
Carbon tetrachloride	10.0	10.1	101	66-128	
Chlorobenzene	10.0	9.38	94	80-120	
Chlorodibromomethane	10.0	10.1	101	64-120	
Chloroethane	10.0	12.0	120	25-153	
Chloroform	10.0	10.6	106	79-120	
Chloromethane	10.0	9.99	100	44-126	
cis-1,2-Dichloroethene	10.0	10.1	101	80-120	
cis-1,3-Dichloropropene	10.0	11.2	112	61-120	
Dibromomethane	10.0	9.91	99	80-120	
Bromochloromethane	10.0	9.53	95	77-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ7235.D

Lab ID: LCS 240-186324/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	10.0	8.92	89	19-129	
Bromodichloromethane	10.0	10.6	106	72-121	
tert-Butyl alcohol	100	76.2	76	70-130	
Ethylbenzene	10.0	9.36	94	80-120	
Hexachlorobutadiene	10.0	10.4	104	36-134	
Isopropylbenzene	10.0	9.06	91	75-120	
Methyl tert-butyl ether	10.0	9.65	96	52-144	
Methylene Chloride	10.0	10.1	101	66-131	
m-Xylene & p-Xylene	10.0	9.23	92	80-120	
Naphthalene	10.0	14.0	140	32-141	
n-Butylbenzene	10.0	10.6	106	66-125	
N-Propylbenzene	10.0	12.0	120	74-121	
o-Xylene	10.0	9.23	92	80-120	
sec-Butylbenzene	10.0	10.9	109	70-120	
Styrene	10.0	8.48	85	79-120	
Tetrachloroethene	10.0	9.03	90	79-120	
Toluene	10.0	10.3	103	80-120	
trans-1,2-Dichloroethene	10.0	9.80	98	80-120	
trans-1,3-Dichloropropene	10.0	12.5	125	58-120	*
Trichloroethene	10.0	10.0	100	76-120	
Trichlorofluoromethane	10.0	10.5	105	49-157	
Vinyl acetate	10.0	12.4	124	46-161	
Vinyl chloride	10.0	10.6	106	53-127	
Xylenes, Total	20.0	18.5	92	80-120	
tert-Butylbenzene	10.0	10.0	100	71-120	
1,2-Dibromoethane	10.0	9.75	98	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ7258.D

Lab ID: 240-52142-3 MS Client ID: MPE-3-061715 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	2500	70 U	2020	81	64-120	
1,1,1-Trichloroethane	2500	110 U	2070	83	68-121	
1,1,2,2-Tetrachloroethane	2500	55 U	2430	97	63-122	
1,1,2-Trichlorotrifluoroethane	2500	110 U	1560	63	70-152	F1
1,1-Dichloroethane	2500	75 U	2280	91	79-120	
1,1-Dichloroethene	2500	110 U	1980	79	74-135	
1,1-Dichloropropene	2500	110 U	2180	87	80-120	
1,2,3-Trichlorobenzene	2500	93 U	2730	109	45-129	
1,2,3-Trichloropropane	2500	110 U	2580	103	67-132	
1,2,4-Trichlorobenzene	2500	80 U	2480	99	38-138	
1,2,4-Trimethylbenzene	2500	100 U	2100	84	67-124	
1,2-Dibromo-3-Chloropropane	2500	210 U	3140	125	32-139	
1,2-Dichlorobenzene	2500	63 U	1950	78	75-120	
1,2-Dichloroethane	2500	58 U	2370	95	68-129	
1,2-Dichloropropane	2500	63 U	2280	91	78-120	
1,3-Dichlorobenzene	2500	48 U	1860	74	73-120	
1,3-Dichloropropane	2500	48 U	2290	92	74-120	
1,4-Dichlorobenzene	2500	68 U	1860	75	75-120	
2,2-Dichloropropane	2500	65 U	1880	75	38-127	
2-Butanone (MEK)	5000	130 U	4340	87	54-129	
2-Chloroethyl vinyl ether	2500	150 U	1870 J	75	10-150	
2-Chlorotoluene	2500	100 U	2230	89	69-120	
2-Hexanone	5000	120 U	4650	93	47-139	
4-Chlorotoluene	2500	73 U	2220	89	71-120	
4-Isopropyltoluene	2500	110 U	1910	76	64-122	
4-Methyl-2-pentanone (MIBK)	5000	250 U	4590	92	56-131	
Acetone	5000	620 J	4000	68	33-145	
Benzene	2500	88 U	2200	88	72-121	
Bromobenzene	2500	88 U	2050	82	71-120	
Bromoform	2500	140 U	1720	69	32-128	
Bromomethane	2500	110 U	2690	108	10-186	
Carbon disulfide	2500	95 U	2050	82	57-147	
Carbon tetrachloride	2500	110 U	1890	75	59-129	
Chlorobenzene	2500	63 U	1990	80	80-120	
Chlorodibromomethane	2500	110 U	2130	85	56-120	
Chloroethane	2500	80 U	2610	104	21-165	
Chloroform	2500	63 U	2340	94	76-120	
Chloromethane	2500	110 U	2200	88	33-132	
cis-1,2-Dichloroethene	2500	65 U	2180	87	70-120	
cis-1,3-Dichloropropene	2500	120 U	2330	93	51-120	
Dibromomethane	2500	110 U	2150	86	77-121	
Bromochloromethane	2500	130 U	2100	84	73-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ7258.D

Lab ID: 240-52142-3 MS Client ID: MPE-3-061715 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Dichlorodifluoromethane	2500	80 U	1610	64	17-128	
Bromodichloromethane	2500	73 U	2320	93	67-120	
tert-Butyl alcohol	25000	1200 U	17700	71	70-130	
Ethylbenzene	2500	63 U	1890	76	75-120	
Hexachlorobutadiene	2500	88 U	1960	79	27-132	
Isopropylbenzene	2500	88 U	1740	70	68-120	
Methyl tert-butyl ether	2500	50 U	2220	89	46-144	
Methylene Chloride	2500	83 U	2210	88	63-128	
m-Xylene & p-Xylene	2500	60 U	1890	76	75-120	
Naphthalene	2500	110 U	3110	124	15-158	
n-Butylbenzene	2500	78 U	1890	76	56-127	
N-Propylbenzene	2500	100 U	2210	88	64-124	
o-Xylene	2500	63 U	1880	75	76-120	F1
sec-Butylbenzene	2500	120 U	2010	80	60-120	
Styrene	2500	110 U	1770	71	71-120	
Tetrachloroethene	2500	78 U	1680	67	70-120	F1
Toluene	2500	58 U	2200	88	78-120	
trans-1,2-Dichloroethene	2500	75 U	2130	85	80-120	
trans-1,3-Dichloropropene	2500	140 U	2560	102	46-120	
Trichloroethene	2500	6300	7740	58	66-120	F1
Trichlorofluoromethane	2500	120 U	2000	80	46-157	
Vinyl acetate	2500	100 U	2780	111	43-157	
Vinyl chloride	2500	73 U	2310	92	49-130	
Xylenes, Total	5000	130 U	3770	75	76-120	F1
tert-Butylbenzene	2500	100 U	2000	80	61-120	
1,2-Dibromoethane	2500	80 U	2170	87	74-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ7259.D

Lab ID: 240-52142-3 MSD Client ID: MPE-3-061715 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1,2-Tetrachloroethane	2500	2180	87	8	30	64-120	
1,1,1-Trichloroethane	2500	2290	92	10	30	68-121	
1,1,2,2-Tetrachloroethane	2500	2570	103	6	30	63-122	
1,1,2-Trichlorotrifluoroethane	2500	2000	80	24	30	70-152	
1,1-Dichloroethane	2500	2500	100	9	30	79-120	
1,1-Dichloroethene	2500	2150	86	8	30	74-135	
1,1-Dichloropropene	2500	2380	95	9	30	80-120	
1,2,3-Trichlorobenzene	2500	2990	120	9	30	45-129	
1,2,3-Trichloropropane	2500	2730	109	6	30	67-132	
1,2,4-Trichlorobenzene	2500	2820	113	13	30	38-138	
1,2,4-Trimethylbenzene	2500	2370	95	12	30	67-124	
1,2-Dibromo-3-Chloropropane	2500	3040	121	3	30	32-139	
1,2-Dichlorobenzene	2500	2130	85	9	30	75-120	
1,2-Dichloroethane	2500	2560	102	8	30	68-129	
1,2-Dichloropropane	2500	2450	98	7	30	78-120	
1,3-Dichlorobenzene	2500	2090	84	12	30	73-120	
1,3-Dichloropropane	2500	2380	95	4	30	74-120	
1,4-Dichlorobenzene	2500	2070	83	11	30	75-120	
2,2-Dichloropropane	2500	2060	83	9	30	38-127	
2-Butanone (MEK)	5000	4450	89	3	30	54-129	
2-Chloroethyl vinyl ether	2500	2050 J	82	9	30	10-150	
2-Chlorotoluene	2500	2520	101	12	30	69-120	
2-Hexanone	5000	4690	94	1	30	47-139	
4-Chlorotoluene	2500	2510	100	12	30	71-120	
4-Isopropyltoluene	2500	2190	87	14	30	64-122	
4-Methyl-2-pentanone (MIBK)	5000	4700	94	2	30	56-131	
Acetone	5000	4410	76	10	30	33-145	
Benzene	2500	2410	97	9	30	72-121	
Bromobenzene	2500	2320	93	12	30	71-120	
Bromoform	2500	1840	74	7	30	32-128	
Bromomethane	2500	2990	120	11	30	10-186	
Carbon disulfide	2500	2220	89	8	30	57-147	
Carbon tetrachloride	2500	2070	83	9	30	59-129	
Chlorobenzene	2500	2180	87	9	30	80-120	
Chlorodibromomethane	2500	2340	94	9	30	56-120	
Chloroethane	2500	2990	120	14	30	21-165	
Chloroform	2500	2540	102	8	30	76-120	
Chloromethane	2500	2380	95	8	30	33-132	
cis-1,2-Dichloroethene	2500	2400	96	10	30	70-120	
cis-1,3-Dichloropropene	2500	2560	102	10	30	51-120	
Dibromomethane	2500	2490	100	15	30	77-121	
Bromochloromethane	2500	2340	93	11	30	73-121	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Matrix: Water Level: Low Lab File ID: UXJ7259.D

Lab ID: 240-52142-3 MSD Client ID: MPE-3-061715 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Dichlorodifluoromethane	2500	1690	68	5	30	17-128	
Bromodichloromethane	2500	2510	100	8	30	67-120	
tert-Butyl alcohol	25000	20200	81	13	30	70-130	
Ethylbenzene	2500	2170	87	14	30	75-120	
Hexachlorobutadiene	2500	2270	91	15	30	27-132	
Isopropylbenzene	2500	1940	78	11	30	68-120	
Methyl tert-butyl ether	2500	2360	94	6	30	46-144	
Methylene Chloride	2500	2460	98	11	30	63-128	
m-Xylene & p-Xylene	2500	2060	82	8	30	75-120	
Naphthalene	2500	3480	139	11	30	15-158	
n-Butylbenzene	2500	2220	89	16	30	56-127	
N-Propylbenzene	2500	2590	104	16	30	64-124	
o-Xylene	2500	1990	80	6	30	76-120	
sec-Butylbenzene	2500	2240	90	11	30	60-120	
Styrene	2500	1970	79	11	30	71-120	
Tetrachloroethene	2500	1890	76	12	30	70-120	
Toluene	2500	2400	96	9	30	78-120	
trans-1,2-Dichloroethene	2500	2330	93	9	30	80-120	
trans-1,3-Dichloropropene	2500	2790	112	8	30	46-120	
Trichloroethene	2500	8350	83	8	30	66-120	
Trichlorofluoromethane	2500	2090	84	5	30	46-157	
Vinyl acetate	2500	2990	120	7	30	43-157	
Vinyl chloride	2500	2490	100	8	30	49-130	
Xylenes, Total	5000	4050	81	7	30	76-120	
tert-Butylbenzene	2500	2310	93	15	30	61-120	
1,2-Dibromoethane	2500	2260	91	4	30	74-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Lab File ID: UXJ7237.D Lab Sample ID: MB 240-186324/31

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX11 Date Analyzed: 06/23/2015 14:27

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 240-186324/4	UXJ7235.D	06/23/2015 13:42
TB-061715	240-52142-1	UXJ7238.D	06/23/2015 14:50
MPE-1-061715	240-52142-2	UXJ7239.D	06/23/2015 15:13
MPE-3-061715	240-52142-3	UXJ7240.D	06/23/2015 15:35
MPE-4-061715	240-52142-4	UXJ7241.D	06/23/2015 15:58
WSP-1-061715	240-52142-5	UXJ7242.D	06/23/2015 16:21
MPE-3-061715 MS	240-52142-3 MS	UXJ7258.D	06/23/2015 22:24
MPE-3-061715 MSD	240-52142-3 MSD	UXJ7259.D	06/23/2015 22:46

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Lab File ID: BFB615E.D BFB Injection Date: 06/15/2015

Instrument ID: A3UX11 BFB Injection Time: 10:38

Analysis Batch No.: 185123

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.7	
75	30.0 - 60.0 % of mass 95	44.4	
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	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	74.3	
175	5.0 - 9.0 % of mass 174	5.7	(7.7)1
176	95.0 - 101.0 % of mass 174	71.9	(96.7)1
177	5.0 - 9.0 % of mass 176	4.9	(6.8)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 240-185123/2	UXJ6997.D	06/15/2015	11:11
	STD8260 240-185123/3	UXJ6998.D	06/15/2015	11:34
	STD8260 240-185123/4	UXJ6999.D	06/15/2015	11:56
	STD8260 240-185123/5	UXJ7000.D	06/15/2015	12:19
	STD8260 240-185123/6	UXJ7001.D	06/15/2015	12:42
	STD8260 240-185123/7	UXJ7002.D	06/15/2015	13:04
	ICV 240-185123/14	UXJ7003.D	06/15/2015	13:27
	STD6 240-185123/8	UXJ7004.D	06/15/2015	13:50
	STD5 240-185123/9	UXJ7005.D	06/15/2015	14:12
	STD4 240-185123/10	UXJ7006.D	06/15/2015	14:35
	STD3 240-185123/11	UXJ7007.D	06/15/2015	14:57
	STD2 240-185123/12	UXJ7008.D	06/15/2015	15:20
	STD1 240-185123/13	UXJ7009.D	06/15/2015	15:43
	ICV 240-185123/15	UXJ7010.D	06/15/2015	16:05

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Lab File ID: BFB623B.D BFB Injection Date: 06/23/2015

Instrument ID: A3UX11 BFB Injection Time: 11:41

Analysis Batch No.: 186324

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.5	
75	30.0 - 60.0 % of mass 95	46.6	
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	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	62.5	
175	5.0 - 9.0 % of mass 174	4.5	(7.2)1
176	95.0 - 101.0 % of mass 174	59.7	(95.5)1
177	5.0 - 9.0 % of mass 176	4.1	(6.9)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 240-186324/2	UXJ7231.D	06/23/2015	12:10
	CCV 240-186324/3	UXJ7233.D	06/23/2015	12:56
	LCS 240-186324/4	UXJ7235.D	06/23/2015	13:42
	MB 240-186324/31	UXJ7237.D	06/23/2015	14:27
TB-061715	240-52142-1	UXJ7238.D	06/23/2015	14:50
MPE-1-061715	240-52142-2	UXJ7239.D	06/23/2015	15:13
MPE-3-061715	240-52142-3	UXJ7240.D	06/23/2015	15:35
MPE-4-061715	240-52142-4	UXJ7241.D	06/23/2015	15:58
WSP-1-061715	240-52142-5	UXJ7242.D	06/23/2015	16:21
MPE-3-061715 MS	240-52142-3 MS	UXJ7258.D	06/23/2015	22:24
MPE-3-061715 MSD	240-52142-3 MSD	UXJ7259.D	06/23/2015	22:46

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Sample No.: STD8260 240-185123/4 Date Analyzed: 06/15/2015 11:56

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ6999.D Heated Purge: (Y/N) N

Calibration ID: 28934

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		949302	5.12	719614	7.78	311332	10.03
UPPER LIMIT		1898604	5.62	1439228	8.28	622664	10.53
LOWER LIMIT		474651	4.62	359807	7.28	155666	9.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 240-185123/14		880295	5.12	678462	7.78	293949	10.03
ICV 240-185123/15		848255	5.12	656898	7.78	271322	10.03
CCVIS 240-186324/2		1123061	5.12	815274	7.78	243923	10.03

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 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Sample No.: CCVIS 240-186324/2 Date Analyzed: 06/23/2015 12:10

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UXJ7231.D Heated Purge: (Y/N) N

Calibration ID: 28936

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1123061	5.12	815274	7.78	243923	10.03
UPPER LIMIT		2246122	5.62	1630548	8.28	487846	10.53
LOWER LIMIT		561531	4.62	407637	7.28	121962	9.53
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 240-186324/3		978838	5.12	746934	7.78	211363	10.03
LCS 240-186324/4		958416	5.12	700120	7.78	214310	10.03
MB 240-186324/31		874815	5.12	636363	7.78	188680	10.03
240-52142-1	TB-061715	894142	5.12	645514	7.78	181766	10.03
240-52142-2	MPE-1-061715	859473	5.12	624405	7.78	177602	10.03
240-52142-3	MPE-3-061715	860732	5.12	632479	7.78	181684	10.03
240-52142-4	MPE-4-061715	891690	5.12	656905	7.78	184812	10.03
240-52142-5	WSP-1-061715	819147	5.12	604249	7.78	180407	10.03
240-52142-3 MS	MPE-3-061715 MS	901234	5.12	656823	7.78	197778	10.03
240-52142-3 MSD	MPE-3-061715 MSD	848283	5.12	624152	7.78	189762	10.03

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 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: TB-061715 | Lab Sample ID: 240-52142-1

Matrix: Water | Lab File ID: UXJ7238.D

Analysis Method: 8260C | Date Collected: 06/17/2015 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 14:50

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.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	1.0	0.45
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.42	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	0.37	U *	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.44	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U *	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
142-28-9	1,3-Dichloropropane	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	0.53	U	10	0.53
110-75-8	2-Chloroethyl vinyl ether	0.59	U	10	0.59
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40
591-78-6	2-Hexanone	0.48	U	10	0.48
106-43-4	4-Chlorotoluene	0.29	U	1.0	0.29
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	0.99	U	10	0.99
67-64-1	Acetone	1.6	J B	10	0.94
71-43-2	Benzene	0.35	U	1.0	0.35
108-86-1	Bromobenzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	1.0	0.44
75-15-0	Carbon disulfide	0.38	U	1.0	0.38
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: TB-061715 | Lab Sample ID: 240-52142-1

Matrix: Water | Lab File ID: UXJ7238.D

Analysis Method: 8260C | Date Collected: 06/17/2015 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 14:50

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.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.42	U	1.0	0.42
74-97-5	Bromochloromethane	0.50	U	1.0	0.50
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
75-27-4	Bromodichloromethane	0.29	U	1.0	0.29
75-65-0	tert-Butyl alcohol	4.9	U	50	4.9
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.50	U	10	0.50
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.33	U	1.0	0.33
179601-23-1	m-Xylene & p-Xylene	0.24	U	2.0	0.24
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.31	U	1.0	0.31
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.25	U	1.0	0.25
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.30	U	5.0	0.30
637-92-3	Ethyl tert-butyl ether	0.23	U	5.0	0.23
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U *	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.52	U	2.0	0.52
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.32	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Client Sample ID: TB-061715 Lab Sample ID: 240-52142-1

Matrix: Water Lab File ID: UXJ7238.D

Analysis Method: 8260C Date Collected: 06/17/2015 00:00

Sample wt/vol: 5(mL) Date Analyzed: 06/23/2015 14:50

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.: 186324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	109		74-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-121
460-00-4	4-Bromofluorobenzene (Surr)	91		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-1-061715 | Lab Sample ID: 240-52142-2

Matrix: Water | Lab File ID: UXJ7239.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 15:13

Soil Aliquot Vol: | Dilution Factor: 1428.57

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	400	U	1400	400
71-55-6	1,1,1-Trichloroethane	630	U	1400	630
79-34-5	1,1,2,2-Tetrachloroethane	310	U	1400	310
76-13-1	1,1,2-Trichlorotrifluoroethane	640	U	1400	640
75-34-3	1,1-Dichloroethane	430	U	1400	430
75-35-4	1,1-Dichloroethene	640	U	1400	640
563-58-6	1,1-Dichloropropene	600	U	1400	600
87-61-6	1,2,3-Trichlorobenzene	530	U *	1400	530
96-18-4	1,2,3-Trichloropropane	630	U	1400	630
526-73-8	1,2,3-Trimethylbenzene	670	U	7100	670
120-82-1	1,2,4-Trichlorobenzene	460	U	1400	460
95-63-6	1,2,4-Trimethylbenzene	590	U	1400	590
96-12-8	1,2-Dibromo-3-Chloropropane	1200	U *	2900	1200
95-50-1	1,2-Dichlorobenzene	360	U	1400	360
107-06-2	1,2-Dichloroethane	330	U	1400	330
78-87-5	1,2-Dichloropropane	360	U	1400	360
541-73-1	1,3-Dichlorobenzene	270	U	1400	270
142-28-9	1,3-Dichloropropane	270	U	1400	270
106-46-7	1,4-Dichlorobenzene	390	U	1400	390
594-20-7	2,2-Dichloropropane	370	U	1400	370
78-93-3	2-Butanone (MEK)	760	U	14000	760
110-75-8	2-Chloroethyl vinyl ether	840	U	14000	840
95-49-8	2-Chlorotoluene	570	U	1400	570
591-78-6	2-Hexanone	690	U	14000	690
106-43-4	4-Chlorotoluene	410	U	1400	410
99-87-6	4-Isopropyltoluene	610	U	1400	610
108-10-1	4-Methyl-2-pentanone (MIBK)	1400	U	14000	1400
67-64-1	Acetone	3100	J B	14000	1300
71-43-2	Benzene	500	U	1400	500
108-86-1	Bromobenzene	500	U	1400	500
75-25-2	Bromoform	800	U	1400	800
74-83-9	Bromomethane	630	U	1400	630
75-15-0	Carbon disulfide	540	U	1400	540
56-23-5	Carbon tetrachloride	610	U	1400	610
108-90-7	Chlorobenzene	360	U	1400	360
124-48-1	Chlorodibromomethane	610	U	1400	610

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-1-061715 | Lab Sample ID: 240-52142-2

Matrix: Water | Lab File ID: UXJ7239.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:40

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 15:13

Soil Aliquot Vol: | Dilution Factor: 1428.57

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	460	U	1400	460
67-66-3	Chloroform	360	U	1400	360
74-87-3	Chloromethane	630	U	1400	630
156-59-2	cis-1,2-Dichloroethene	370	U	1400	370
10061-01-5	cis-1,3-Dichloropropene	660	U	1400	660
74-95-3	Dibromomethane	600	U	1400	600
74-97-5	Bromochloromethane	710	U	1400	710
75-71-8	Dichlorodifluoromethane	460	U	1400	460
75-27-4	Bromodichloromethane	410	U	1400	410
75-65-0	tert-Butyl alcohol	7000	U	71000	7000
100-41-4	Ethylbenzene	360	U	1400	360
87-68-3	Hexachlorobutadiene	500	U	1400	500
108-20-3	Diisopropyl ether	710	U	14000	710
98-82-8	Isopropylbenzene	500	U	1400	500
1634-04-4	Methyl tert-butyl ether	290	U	1400	290
75-09-2	Methylene Chloride	470	U	1400	470
179601-23-1	m-Xylene & p-Xylene	340	U	2900	340
91-20-3	Naphthalene	640	U	1400	640
104-51-8	n-Butylbenzene	440	U	1400	440
103-65-1	N-Propylbenzene	570	U	1400	570
95-47-6	o-Xylene	360	U	1400	360
135-98-8	sec-Butylbenzene	690	U	1400	690
100-42-5	Styrene	640	U	1400	640
994-05-8	Tert-amyl methyl ether	430	U	7100	430
637-92-3	Ethyl tert-butyl ether	330	U	7100	330
127-18-4	Tetrachloroethene	440	U	1400	440
108-88-3	Toluene	330	U	1400	330
156-60-5	trans-1,2-Dichloroethene	430	U	1400	430
10061-02-6	trans-1,3-Dichloropropene	800	U *	1400	800
79-01-6	Trichloroethene	44000		1400	310
75-69-4	Trichlorofluoromethane	700	U	1400	700
108-05-4	Vinyl acetate	590	U	2900	590
75-01-4	Vinyl chloride	410	U	1400	410
1330-20-7	Xylenes, Total	740	U	2900	740
98-06-6	tert-Butylbenzene	590	U	1400	590
106-93-4	1,2-Dibromoethane	460	U	1400	460

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-1-061715 Lab Sample ID: 240-52142-2

Matrix: Water Lab File ID: UXJ7239.D

Analysis Method: 8260C Date Collected: 06/17/2015 13:40

Sample wt/vol: 5(mL) Date Analyzed: 06/23/2015 15:13

Soil Aliquot Vol: Dilution Factor: 1428.57

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 186324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	114		74-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-121
460-00-4	4-Bromofluorobenzene (Surr)	91		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-3-061715 | Lab Sample ID: 240-52142-3

Matrix: Water | Lab File ID: UXJ7240.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:42

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 15:35

Soil Aliquot Vol: | Dilution Factor: 250

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	70	U	250	70
71-55-6	1,1,1-Trichloroethane	110	U	250	110
79-34-5	1,1,2,2-Tetrachloroethane	55	U	250	55
76-13-1	1,1,2-Trichlorotrifluoroethane	110	U F1	250	110
75-34-3	1,1-Dichloroethane	75	U	250	75
75-35-4	1,1-Dichloroethene	110	U	250	110
563-58-6	1,1-Dichloropropene	110	U	250	110
87-61-6	1,2,3-Trichlorobenzene	93	U *	250	93
96-18-4	1,2,3-Trichloropropane	110	U	250	110
526-73-8	1,2,3-Trimethylbenzene	120	U	1300	120
120-82-1	1,2,4-Trichlorobenzene	80	U	250	80
95-63-6	1,2,4-Trimethylbenzene	100	U	250	100
96-12-8	1,2-Dibromo-3-Chloropropane	210	U *	500	210
95-50-1	1,2-Dichlorobenzene	63	U	250	63
107-06-2	1,2-Dichloroethane	58	U	250	58
78-87-5	1,2-Dichloropropane	63	U	250	63
541-73-1	1,3-Dichlorobenzene	48	U	250	48
142-28-9	1,3-Dichloropropane	48	U	250	48
106-46-7	1,4-Dichlorobenzene	68	U	250	68
594-20-7	2,2-Dichloropropane	65	U	250	65
78-93-3	2-Butanone (MEK)	130	U	2500	130
110-75-8	2-Chloroethyl vinyl ether	150	U	2500	150
95-49-8	2-Chlorotoluene	100	U	250	100
591-78-6	2-Hexanone	120	U	2500	120
106-43-4	4-Chlorotoluene	73	U	250	73
99-87-6	4-Isopropyltoluene	110	U	250	110
108-10-1	4-Methyl-2-pentanone (MIBK)	250	U	2500	250
67-64-1	Acetone	620	J B	2500	240
71-43-2	Benzene	88	U	250	88
108-86-1	Bromobenzene	88	U	250	88
75-25-2	Bromoform	140	U	250	140
74-83-9	Bromomethane	110	U	250	110
75-15-0	Carbon disulfide	95	U	250	95
56-23-5	Carbon tetrachloride	110	U	250	110
108-90-7	Chlorobenzene	63	U	250	63
124-48-1	Chlorodibromomethane	110	U	250	110

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-3-061715 | Lab Sample ID: 240-52142-3

Matrix: Water | Lab File ID: UXJ7240.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:42

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 15:35

Soil Aliquot Vol: | Dilution Factor: 250

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	80	U	250	80
67-66-3	Chloroform	63	U	250	63
74-87-3	Chloromethane	110	U	250	110
156-59-2	cis-1,2-Dichloroethene	65	U	250	65
10061-01-5	cis-1,3-Dichloropropene	120	U	250	120
74-95-3	Dibromomethane	110	U	250	110
74-97-5	Bromochloromethane	130	U	250	130
75-71-8	Dichlorodifluoromethane	80	U	250	80
75-27-4	Bromodichloromethane	73	U	250	73
75-65-0	tert-Butyl alcohol	1200	U	13000	1200
100-41-4	Ethylbenzene	63	U	250	63
87-68-3	Hexachlorobutadiene	88	U	250	88
108-20-3	Diisopropyl ether	130	U	2500	130
98-82-8	Isopropylbenzene	88	U	250	88
1634-04-4	Methyl tert-butyl ether	50	U	250	50
75-09-2	Methylene Chloride	83	U	250	83
179601-23-1	m-Xylene & p-Xylene	60	U	500	60
91-20-3	Naphthalene	110	U	250	110
104-51-8	n-Butylbenzene	78	U	250	78
103-65-1	N-Propylbenzene	100	U	250	100
95-47-6	o-Xylene	63	U F1	250	63
135-98-8	sec-Butylbenzene	120	U	250	120
100-42-5	Styrene	110	U	250	110
994-05-8	Tert-amyl methyl ether	75	U	1300	75
637-92-3	Ethyl tert-butyl ether	58	U	1300	58
127-18-4	Tetrachloroethene	78	U F1	250	78
108-88-3	Toluene	58	U	250	58
156-60-5	trans-1,2-Dichloroethene	75	U	250	75
10061-02-6	trans-1,3-Dichloropropene	140	U *	250	140
79-01-6	Trichloroethene	6300	F1	250	55
75-69-4	Trichlorofluoromethane	120	U	250	120
108-05-4	Vinyl acetate	100	U	500	100
75-01-4	Vinyl chloride	73	U	250	73
1330-20-7	Xylenes, Total	130	U F1	500	130
98-06-6	tert-Butylbenzene	100	U	250	100
106-93-4	1,2-Dibromoethane	80	U	250	80

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-3-061715 Lab Sample ID: 240-52142-3

Matrix: Water Lab File ID: UXJ7240.D

Analysis Method: 8260C Date Collected: 06/17/2015 13:42

Sample wt/vol: 5(mL) Date Analyzed: 06/23/2015 15:35

Soil Aliquot Vol: Dilution Factor: 250

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 186324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	113		74-120
1868-53-7	Dibromofluoromethane (Surr)	111		75-121
460-00-4	4-Bromofluorobenzene (Surr)	94		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-4-061715 | Lab Sample ID: 240-52142-4

Matrix: Water | Lab File ID: UXJ7241.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:43

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 15:58

Soil Aliquot Vol: | Dilution Factor: 833.33

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	230	U	830	230
71-55-6	1,1,1-Trichloroethane	370	U	830	370
79-34-5	1,1,2,2-Tetrachloroethane	180	U	830	180
76-13-1	1,1,2-Trichlorotrifluoroethane	370	U	830	370
75-34-3	1,1-Dichloroethane	250	U	830	250
75-35-4	1,1-Dichloroethene	370	U	830	370
563-58-6	1,1-Dichloropropene	350	U	830	350
87-61-6	1,2,3-Trichlorobenzene	310	U *	830	310
96-18-4	1,2,3-Trichloropropane	370	U	830	370
526-73-8	1,2,3-Trimethylbenzene	390	U	4200	390
120-82-1	1,2,4-Trichlorobenzene	270	U	830	270
95-63-6	1,2,4-Trimethylbenzene	340	U	830	340
96-12-8	1,2-Dibromo-3-Chloropropane	680	U *	1700	680
95-50-1	1,2-Dichlorobenzene	210	U	830	210
107-06-2	1,2-Dichloroethane	190	U	830	190
78-87-5	1,2-Dichloropropane	210	U	830	210
541-73-1	1,3-Dichlorobenzene	160	U	830	160
142-28-9	1,3-Dichloropropane	160	U	830	160
106-46-7	1,4-Dichlorobenzene	220	U	830	220
594-20-7	2,2-Dichloropropane	220	U	830	220
78-93-3	2-Butanone (MEK)	440	U	8300	440
110-75-8	2-Chloroethyl vinyl ether	490	U	8300	490
95-49-8	2-Chlorotoluene	330	U	830	330
591-78-6	2-Hexanone	400	U	8300	400
106-43-4	4-Chlorotoluene	240	U	830	240
99-87-6	4-Isopropyltoluene	360	U	830	360
108-10-1	4-Methyl-2-pentanone (MIBK)	820	U	8300	820
67-64-1	Acetone	1900	J B	8300	780
71-43-2	Benzene	290	U	830	290
108-86-1	Bromobenzene	290	U	830	290
75-25-2	Bromoform	470	U	830	470
74-83-9	Bromomethane	370	U	830	370
75-15-0	Carbon disulfide	320	U	830	320
56-23-5	Carbon tetrachloride	360	U	830	360
108-90-7	Chlorobenzene	210	U	830	210
124-48-1	Chlorodibromomethane	360	U	830	360

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-4-061715 | Lab Sample ID: 240-52142-4

Matrix: Water | Lab File ID: UXJ7241.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:43

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 15:58

Soil Aliquot Vol: | Dilution Factor: 833.33

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	270	U	830	270
67-66-3	Chloroform	210	U	830	210
74-87-3	Chloromethane	370	U	830	370
156-59-2	cis-1,2-Dichloroethene	220	U	830	220
10061-01-5	cis-1,3-Dichloropropene	380	U	830	380
74-95-3	Dibromomethane	350	U	830	350
74-97-5	Bromochloromethane	420	U	830	420
75-71-8	Dichlorodifluoromethane	270	U	830	270
75-27-4	Bromodichloromethane	240	U	830	240
75-65-0	tert-Butyl alcohol	4100	U	42000	4100
100-41-4	Ethylbenzene	210	U	830	210
87-68-3	Hexachlorobutadiene	290	U	830	290
108-20-3	Diisopropyl ether	420	U	8300	420
98-82-8	Isopropylbenzene	290	U	830	290
1634-04-4	Methyl tert-butyl ether	170	U	830	170
75-09-2	Methylene Chloride	270	U	830	270
179601-23-1	m-Xylene & p-Xylene	200	U	1700	200
91-20-3	Naphthalene	370	U	830	370
104-51-8	n-Butylbenzene	260	U	830	260
103-65-1	N-Propylbenzene	330	U	830	330
95-47-6	o-Xylene	210	U	830	210
135-98-8	sec-Butylbenzene	400	U	830	400
100-42-5	Styrene	370	U	830	370
994-05-8	Tert-amyl methyl ether	250	U	4200	250
637-92-3	Ethyl tert-butyl ether	190	U	4200	190
127-18-4	Tetrachloroethene	260	U	830	260
108-88-3	Toluene	190	U	830	190
156-60-5	trans-1,2-Dichloroethene	250	U	830	250
10061-02-6	trans-1,3-Dichloropropene	470	U *	830	470
79-01-6	Trichloroethene	25000		830	180
75-69-4	Trichlorofluoromethane	410	U	830	410
108-05-4	Vinyl acetate	340	U	1700	340
75-01-4	Vinyl chloride	240	U	830	240
1330-20-7	Xylenes, Total	430	U	1700	430
98-06-6	tert-Butylbenzene	340	U	830	340
106-93-4	1,2-Dibromoethane	270	U	830	270

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-4-061715 | Lab Sample ID: 240-52142-4

Matrix: Water | Lab File ID: UXJ7241.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:43

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 15:58

Soil Aliquot Vol: | Dilution Factor: 833.33

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	105		74-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-121
460-00-4	4-Bromofluorobenzene (Surr)	86		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: WSP-1-061715 | Lab Sample ID: 240-52142-5

Matrix: Water | Lab File ID: UXJ7242.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:50

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 16:21

Soil Aliquot Vol: | Dilution Factor: 714.29

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	200	U	710	200
71-55-6	1,1,1-Trichloroethane	310	U	710	310
79-34-5	1,1,2,2-Tetrachloroethane	160	U	710	160
76-13-1	1,1,2-Trichlorotrifluoroethane	320	U	710	320
75-34-3	1,1-Dichloroethane	210	U	710	210
75-35-4	1,1-Dichloroethene	320	U	710	320
563-58-6	1,1-Dichloropropene	300	U	710	300
87-61-6	1,2,3-Trichlorobenzene	260	U *	710	260
96-18-4	1,2,3-Trichloropropane	310	U	710	310
526-73-8	1,2,3-Trimethylbenzene	340	U	3600	340
120-82-1	1,2,4-Trichlorobenzene	230	U	710	230
95-63-6	1,2,4-Trimethylbenzene	290	U	710	290
96-12-8	1,2-Dibromo-3-Chloropropane	590	U *	1400	590
95-50-1	1,2-Dichlorobenzene	180	U	710	180
107-06-2	1,2-Dichloroethane	160	U	710	160
78-87-5	1,2-Dichloropropane	180	U	710	180
541-73-1	1,3-Dichlorobenzene	140	U	710	140
142-28-9	1,3-Dichloropropane	140	U	710	140
106-46-7	1,4-Dichlorobenzene	190	U	710	190
594-20-7	2,2-Dichloropropane	190	U	710	190
78-93-3	2-Butanone (MEK)	380	U	7100	380
110-75-8	2-Chloroethyl vinyl ether	420	U	7100	420
95-49-8	2-Chlorotoluene	290	U	710	290
591-78-6	2-Hexanone	340	U	7100	340
106-43-4	4-Chlorotoluene	210	U	710	210
99-87-6	4-Isopropyltoluene	310	U	710	310
108-10-1	4-Methyl-2-pentanone (MIBK)	710	U	7100	710
67-64-1	Acetone	2100	J B	7100	670
71-43-2	Benzene	250	U	710	250
108-86-1	Bromobenzene	250	U	710	250
75-25-2	Bromoform	400	U	710	400
74-83-9	Bromomethane	310	U	710	310
75-15-0	Carbon disulfide	270	U	710	270
56-23-5	Carbon tetrachloride	310	U	710	310
108-90-7	Chlorobenzene	180	U	710	180
124-48-1	Chlorodibromomethane	310	U	710	310

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: WSP-1-061715 | Lab Sample ID: 240-52142-5

Matrix: Water | Lab File ID: UXJ7242.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:50

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 16:21

Soil Aliquot Vol: | Dilution Factor: 714.29

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	230	U	710	230
67-66-3	Chloroform	180	U	710	180
74-87-3	Chloromethane	310	U	710	310
156-59-2	cis-1,2-Dichloroethene	190	U	710	190
10061-01-5	cis-1,3-Dichloropropene	330	U	710	330
74-95-3	Dibromomethane	300	U	710	300
74-97-5	Bromochloromethane	360	U	710	360
75-71-8	Dichlorodifluoromethane	230	U	710	230
75-27-4	Bromodichloromethane	210	U	710	210
75-65-0	tert-Butyl alcohol	3500	U	36000	3500
100-41-4	Ethylbenzene	180	U	710	180
87-68-3	Hexachlorobutadiene	250	U	710	250
108-20-3	Diisopropyl ether	360	U	7100	360
98-82-8	Isopropylbenzene	250	U	710	250
1634-04-4	Methyl tert-butyl ether	140	U	710	140
75-09-2	Methylene Chloride	240	U	710	240
179601-23-1	m-Xylene & p-Xylene	170	U	1400	170
91-20-3	Naphthalene	320	U	710	320
104-51-8	n-Butylbenzene	220	U	710	220
103-65-1	N-Propylbenzene	290	U	710	290
95-47-6	o-Xylene	180	U	710	180
135-98-8	sec-Butylbenzene	340	U	710	340
100-42-5	Styrene	320	U	710	320
994-05-8	Tert-amyl methyl ether	210	U	3600	210
637-92-3	Ethyl tert-butyl ether	160	U	3600	160
127-18-4	Tetrachloroethene	220	U	710	220
108-88-3	Toluene	160	U	710	160
156-60-5	trans-1,2-Dichloroethene	210	U	710	210
10061-02-6	trans-1,3-Dichloropropene	400	U *	710	400
79-01-6	Trichloroethene	24000		710	160
75-69-4	Trichlorofluoromethane	350	U	710	350
108-05-4	Vinyl acetate	290	U	1400	290
75-01-4	Vinyl chloride	210	U	710	210
1330-20-7	Xylenes, Total	370	U	1400	370
98-06-6	tert-Butylbenzene	290	U	710	290
106-93-4	1,2-Dibromoethane	230	U	710	230

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Client Sample ID: WSP-1-061715 Lab Sample ID: 240-52142-5

Matrix: Water Lab File ID: UXJ7242.D

Analysis Method: 8260C Date Collected: 06/17/2015 13:50

Sample wt/vol: 5(mL) Date Analyzed: 06/23/2015 16:21

Soil Aliquot Vol: Dilution Factor: 714.29

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 186324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	117		74-120
1868-53-7	Dibromofluoromethane (Surr)	117		75-121
460-00-4	4-Bromofluorobenzene (Surr)	96		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		63-129

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 11:11 Calibration End Date: 06/15/2015 13:04 Calibration ID: 28934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-185123/7	UXJ7002.D
Level 2	STD8260 240-185123/6	UXJ7001.D
Level 3	STD8260 240-185123/5	UXJ7000.D
Level 4	STD8260 240-185123/4	UXJ6999.D
Level 5	STD8260 240-185123/3	UXJ6998.D
Level 6	STD8260 240-185123/2	UXJ6997.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	0.2013 0.1889	0.1915	0.1746	0.2155	0.1980	Ave		0.1950			0.1000	7.0		15.0			
Chloromethane	0.2994 0.2518	0.2872	0.2819	0.2594	0.2720	Ave		0.2753			0.1000	6.5		15.0			
Vinyl chloride	0.2881 0.2409	0.2749	0.2659	0.2630	0.2625	Ave		0.2659			0.1000	5.9		15.0			
Butadiene	0.2992 +++++	0.3236	0.2805	0.2723	0.2608	Ave		0.2873				8.6		15.0			
Bromomethane	0.1294 0.1247	0.1402	0.1296	0.1167	0.1341	Ave		0.1291			0.0500	6.2		15.0			
Chloroethane	0.1484 0.1341	0.1399	0.1329	0.1245	0.1428	Ave		0.1371				6.1		15.0			
Dichlorofluoromethane	0.4007 0.3424	0.3925	0.3635	0.3476	0.3634	Ave		0.3683				6.4		15.0			
Trichlorofluoromethane	0.3337 0.3166	0.3280	0.3078	0.3486	0.3334	Ave		0.3280			0.1000	4.4		15.0			
Ethyl ether	0.3626 0.2961	0.3212	0.3318	0.3088	0.3251	Ave		0.3243				7.0		15.0			
Acrolein	0.0390 0.0232	0.0332	0.0288	0.0269	0.0278	Lin1	0.0879	0.0243							0.9930		0.9900
1,1-Dichloroethene	0.3693 0.3038	0.3620	0.3345	0.3301	0.3334	Ave		0.3389			0.1000	7.0		15.0			
1,1,2-Trichlorotrifluoroethane	0.1321 0.1529	0.1429	0.1371	0.1681	0.1491	Ave		0.1470			0.0500	8.7		15.0			
Acetone	0.0931 0.0636	0.0772	0.0718	0.0713	0.0699	Ave		0.0745			0.0500	13.6		15.0			
Iodomethane	0.5260 0.3808	0.4774	0.4807	0.4485	0.4462	Ave		0.4599				10.5		15.0			
Carbon disulfide	1.1521 0.9434	1.0889	1.0810	1.0708	1.0735	Ave		1.0683			0.1000	6.4		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 11:11 Calibration End Date: 06/15/2015 13:04 Calibration ID: 28934

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								
3-Chloro-1-propene	0.2454 0.3414	0.2606	0.2915	0.2980	0.3235	Ave		0.2934				12.4		15.0			
Methyl acetate	0.2205 0.1770	0.2105	0.2075	0.1971	0.2043	Ave		0.2028			0.1000	7.3		15.0			
Methylene Chloride	0.6091 0.3543	0.5052	0.4185	0.3776	0.3916	Lin1	0.2743	0.3570			0.1000				0.9980		0.9900
tert-Butyl alcohol	0.0191 0.0152	0.0199	0.0199	0.0174	0.0190	Ave		0.0184				9.8		15.0			
Acrylonitrile	0.1133 0.0947	0.1086	0.1086	0.1038	0.1093	Ave		0.1064				6.1		15.0			
Methyl tert-butyl ether	1.0732 0.9601	1.0519	1.0553	0.9749	1.0362	Ave		1.0253			0.1000	4.5		15.0			
trans-1,2-Dichloroethene	0.4504 0.3920	0.4216	0.4240	0.3964	0.4105	Ave		0.4158			0.1000	5.1		15.0			
Hexane	0.1004 0.1015	0.1000	0.0942	0.1157	0.1004	Ave		0.1021				7.1		15.0			
1,1-Dichloroethane	0.7971 0.6763	0.7394	0.7093	0.6722	0.7088	Ave		0.7172			0.1000	6.5		15.0			
Vinyl acetate	0.5820 0.5064	0.5315	0.5477	0.5124	0.5507	Ave		0.5384				5.2		15.0			
cis-1,2-Dichloroethene	0.4477 0.4131	0.4399	0.4286	0.4002	0.4364	Ave		0.4276			0.1000	4.2		15.0			
2,2-Dichloropropane	0.4629 0.3458	0.4021	0.3920	0.3846	0.3983	Ave		0.3976				9.5		15.0			
2-Butanone (MEK)	0.1380 0.0993	0.1204	0.1165	0.1114	0.1133	Ave		0.1165			0.0500	10.9		15.0			
Bromochloromethane	0.1962 0.1758	0.1800	0.1808	0.1759	0.1867	Ave		0.1826				4.3		15.0			
Tetrahydrofuran	0.0795 0.0656	0.0795	0.0757	0.0737	0.0766	Ave		0.0751				6.9		15.0			
Chloroform	0.7048 0.6023	0.6358	0.6321	0.5985	0.6355	Ave		0.6348				6.0		15.0			
1,1,1-Trichloroethane	0.5443 0.4427	0.4847	0.4652	0.4637	0.4835	Ave		0.4807			0.1000	7.2		15.0			
Cyclohexane	0.6278 0.5471	0.5892	0.5186	0.6440	0.5887	Ave		0.5859			0.1000	8.1		15.0			
1,1-Dichloropropene	0.5602 0.4932	0.5076	0.4891	0.5001	0.5134	Ave		0.5106				5.1		15.0			
Carbon tetrachloride	0.4111 0.3740	0.3940	0.3642	0.3875	0.3914	Ave		0.3870			0.1000	4.2		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 11:11 Calibration End Date: 06/15/2015 13:04 Calibration ID: 28934

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								
Isobutyl alcohol	0.0089 0.0073	0.0082	0.0084	0.0084	0.0083	Ave		0.0082				6.3		15.0			
Benzene	1.8703 1.6779	1.6848	1.7423	1.6464	1.7249	Ave		1.7244			0.5000	4.6		15.0			
1,2-Dichloroethane	0.4787 0.4129	0.4319	0.4411	0.4161	0.4440	Ave		0.4375			0.1000	5.5		15.0			
n-Heptane	0.0885 0.0932	0.0881	0.0863	0.1138	0.0884	Ave		0.0930				11.2		15.0			
Trichloroethene	0.4450 0.3766	0.3813	0.3836	0.3705	0.3912	Ave		0.3914			0.2000	6.9		15.0			
Methylcyclohexane	0.5722 0.5696	0.5601	0.5145	0.6407	0.5798	Ave		0.5728			0.1000	7.1		15.0			
1,2-Dichloropropane	0.4354 0.3986	0.4097	0.4084	0.3920	0.4178	Ave		0.4103			0.1000	3.7		15.0			
Dibromomethane	0.2137 0.1828	0.2061	0.2036	0.1896	0.1990	Ave		0.1991				5.7		15.0			
1,4-Dioxane	0.0014 +++++	0.0020	0.0024	0.0023	0.0023	Lin1	-0.017	0.0024							0.9980		0.9900
Bromodichloromethane	0.4344 0.4649	0.4488	0.4457	0.4392	0.4809	Ave		0.4523			0.1000	3.9		15.0			
2-Chloroethyl vinyl ether	0.2312 0.2006	0.2088	0.2145	0.2119	0.2236	Ave		0.2151				5.1		15.0			
cis-1,3-Dichloropropene	0.4727 0.6042	0.5005	0.5756	0.5587	0.6167	Ave		0.5547			0.1500	10.3		15.0			
4-Methyl-2-pentanone (MIBK)	0.2722 0.2244	0.2499	0.2485	0.2548	0.2619	Ave		0.2520			0.0500	6.4		15.0			
Toluene	2.4164 2.3686	2.3252	2.3078	2.2289	2.3361	Ave		2.3305			0.4000	2.7		15.0			
trans-1,3-Dichloropropene	0.5017 0.6592	0.5340	0.5901	0.5900	0.6521	Ave		0.5878			0.1000	10.6		15.0			
Ethyl methacrylate	0.5557 0.5796	0.5467	0.5691	0.5719	0.5951	Ave		0.5697				3.0		15.0			
1,1,2-Trichloroethane	0.4483 0.4020	0.4169	0.4321	0.4073	0.4059	Ave		0.4188			0.1000	4.3		15.0			
Tetrachloroethene	0.3956 0.3705	0.3583	0.3546	0.3502	0.3602	Ave		0.3649			0.2000	4.5		15.0			
1,3-Dichloropropane	0.8383 0.7467	0.7642	0.7694	0.7316	0.7632	Ave		0.7689				4.8		15.0			
2-Hexanone	0.2059 0.2088	0.2172	0.2216	0.2283	0.2210	Ave		0.2171			0.0500	3.9		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 11:11 Calibration End Date: 06/15/2015 13:04 Calibration ID: 28934

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								
Chlorodibromomethane	0.2582 0.4057	0.2825	0.3412	0.3509	0.3850	Lin1	-0.199	0.3995							0.9980		0.9900
1,2-Dibromoethane	0.3975 0.3672	0.3840	0.3780	0.3740	0.3812	Ave		0.3803				2.7		15.0			
Chlorobenzene	1.4665 1.3519	1.3695	1.3621	1.2994	1.3423	Ave		1.3653			0.3000	4.1		15.0			
1,1,1,2-Tetrachloroethane	0.4208 0.4239	0.3872	0.4267	0.4072	0.4231	Ave		0.4148				3.7		15.0			
Ethylbenzene	0.8167 0.7747	0.7487	0.7463	0.7465	0.7554	Ave		0.7647				3.6		15.0			
m-Xylene & p-Xylene	0.9658 0.9370	0.9432	0.9297	0.8993	0.9420	Ave		0.9362				2.3		15.0			
o-Xylene	0.9528 0.8737	0.8741	0.8725	0.8494	0.8814	Ave		0.8840				4.0		15.0			
Styrene	1.5493 1.5880	1.4782	1.5230	1.5165	1.5870	Ave		1.5403			0.3000	2.8		15.0			
Bromoform	0.1148 0.2027	0.1228	0.1484	0.1702	0.1913	Lin1	-0.130	0.1989			0.1000				0.9960		0.9900
Isopropylbenzene	2.2051 2.1405	2.1072	2.1144	2.0980	2.1821	Ave		2.1412			0.1000	2.0		15.0			
1,1,2,2-Tetrachloroethane	1.2070 0.9447	1.0225	1.0408	1.0168	1.0489	Ave		1.0468			0.3000	8.3		15.0			
Bromobenzene	1.3032 1.1474	1.1153	1.1414	1.0946	1.1555	Ave		1.1596				6.4		15.0			
1,2,3-Trichloropropane	0.3489 0.2772	0.3141	0.3097	0.3062	0.3114	Ave		0.3112				7.3		15.0			
trans-1,4-Dichloro-2-butene	0.0591 +++++	0.0759	0.1048	0.1373	0.1573	Lin1	-0.132	0.1556							0.9900		0.9900
N-Propylbenzene	1.3624 1.3269	1.2884	1.2755	1.2835	1.3543	Ave		1.3152				2.9		15.0			
2-Chlorotoluene	1.1856 1.0942	1.1342	1.1236	1.0630	1.1260	Ave		1.1211				3.7		15.0			
1,3,5-Trimethylbenzene	3.9182 3.6973	3.6267	3.7483	3.6138	3.8757	Ave		3.7467				3.4		15.0			
4-Chlorotoluene	1.2641 1.1700	1.1092	1.1825	1.1436	1.2106	Ave		1.1800				4.6		15.0			
tert-Butylbenzene	3.4896 2.9573	3.0492	3.0460	2.9061	3.0968	Ave		3.0908				6.7		15.0			
1,2,4-Trimethylbenzene	4.0292 3.7229	3.7294	3.8223	3.7260	3.8941	Ave		3.8206				3.2		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 11:11 Calibration End Date: 06/15/2015 13:04 Calibration ID: 28934

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								
sec-Butylbenzene	4.4366 4.2213	4.0908	4.2483	4.2277	4.3934	Ave		4.2697				3.0		15.0			
1,3-Dichlorobenzene	2.1523 1.8984	1.9805	2.0115	1.9138	1.9969	Ave		1.9922			0.6000	4.6		15.0			
4-Isopropyltoluene	3.6003 3.4061	3.4495	3.6088	3.5038	3.5986	Ave		3.5278				2.5		15.0			
1,4-Dichlorobenzene	2.2156 1.9436	2.0612	2.0490	1.9163	2.0340	Ave		2.0366			0.5000	5.2		15.0			
n-Butylbenzene	3.0137 2.7845	2.7480	2.8412	2.8744	2.9534	Ave		2.8692				3.5		15.0			
1,2-Dichlorobenzene	2.0580 1.6635	1.7527	1.7908	1.7056	1.7542	Ave		1.7875			0.4000	7.8		15.0			
1,2-Dibromo-3-Chloropropane	0.1112 0.1023	0.0924	0.1026	0.1076	0.1160	Ave		0.1054			0.0500	7.8		15.0			
1,2,4-Trichlorobenzene	0.8193 0.6950	0.7533	0.7175	0.6837	0.7179	Ave		0.7311			0.2000	6.8		15.0			
Hexachlorobutadiene	0.2282 0.2399	0.2451	0.2458	0.2437	0.2361	Ave		0.2398				2.8		15.0			
Naphthalene	1.8935 1.7342	1.8671	1.8495	1.7752	1.8758	Ave		1.8326				3.5		15.0			
1,2,3-Trichlorobenzene	0.6883 0.6124	0.6225	0.6526	0.5855	0.6252	Ave		0.6311				5.6		15.0			
Dibromofluoromethane (Surr)	0.3120 0.2984	0.2853	0.3136	0.2834	0.3055	Ave		0.2997				4.4		15.0			
1,2-Dichloroethane-d4 (Surr)	0.3600 0.3497	0.3605	0.3741	0.3453	0.3654	Ave		0.3592				2.9		15.0			
Toluene-d8 (Surr)	1.8217 1.8955	1.7460	1.7920	1.7532	1.8253	Ave		1.8056				3.1		15.0			
4-Bromofluorobenzene (Surr)	0.5839 0.5783	0.5584	0.6161	0.5646	0.5897	Ave		0.5818				3.5		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 11:11 Calibration End Date: 06/15/2015 13:04 Calibration ID: 28934

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-185123/7	UXJ7002.D
Level 2	STD8260 240-185123/6	UXJ7001.D
Level 3	STD8260 240-185123/5	UXJ7000.D
Level 4	STD8260 240-185123/4	UXJ6999.D
Level 5	STD8260 240-185123/3	UXJ6998.D
Level 6	STD8260 240-185123/2	UXJ6997.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	17553 826382	33667	79680	204546	388798	1.00 40.0	2.00	5.00	10.0	20.0
Chloromethane	FB	Ave	26109 1101649	50494	128653	246244	533987	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl chloride	FB	Ave	25128 1053627	48336	121367	249713	515331	1.00 40.0	2.00	5.00	10.0	20.0
Butadiene	FB	Ave	26093 +++++	56884	128026	258482	512012	1.00 +++++	2.00	5.00	10.0	20.0
Bromomethane	FB	Ave	11281 545358	24656	59132	110827	263324	1.00 40.0	2.00	5.00	10.0	20.0
Chloroethane	FB	Ave	12940 586846	24587	60672	118215	280440	1.00 40.0	2.00	5.00	10.0	20.0
Dichlorofluoromethane	FB	Ave	34948 1497778	69000	165907	329945	713464	1.00 40.0	2.00	5.00	10.0	20.0
Trichlorofluoromethane	FB	Ave	29101 1385174	57665	140450	330958	654582	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl ether	FB	Ave	31622 1295432	56462	151429	293154	638340	1.00 40.0	2.00	5.00	10.0	20.0
Acrolein	FB	Lin1	17020 508338	29209	65741	127594	272761	5.00 200	10.0	25.0	50.0	100
1,1-Dichloroethene	FB	Ave	32210 1328818	63647	152676	313389	654580	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichlorotrifluoroethane	FB	Ave	11518 669022	25121	62557	159540	292775	1.00 40.0	2.00	5.00	10.0	20.0
Acetone	FB	Ave	16246 556085	27162	65519	135285	274384	2.00 80.0	4.00	10.0	20.0	40.0
Iodomethane	FB	Ave	45877 1666021	83928	219386	425762	875922	1.00 40.0	2.00	5.00	10.0	20.0
Carbon disulfide	FB	Ave	100476 4126891	191432	493354	1016476	2107653	1.00 40.0	2.00	5.00	10.0	20.0
3-Chloro-1-propene	FB	Ave	21405 1493695	45812	133033	282862	635088	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 11:11 Calibration End Date: 06/15/2015 13:04 Calibration ID: 28934

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	96160 3871474	185013	473383	935345	2005112	5.00 200	10.0	25.0	50.0	100
Methylene Chloride	FB	Lin1	53121 1549902	88812	190990	358498	768718	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butyl alcohol	FB	Ave	16615 666775	34988	90952	165394	372173	10.0 400	20.0	50.0	100	200
Acrylonitrile	FB	Ave	98804 4143587	190990	495823	985359	2146575	10.0 400	20.0	50.0	100	200
Methyl tert-butyl ether	FB	Ave	93591 4200218	184934	481591	925444	2034317	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,2-Dichloroethene	FB	Ave	39279 1714681	74112	193490	376348	805835	1.00 40.0	2.00	5.00	10.0	20.0
Hexane	FB	Ave	8759 444225	17589	42973	109877	197185	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloroethane	FB	Ave	69515 2958537	129997	323693	638112	1391658	1.00 40.0	2.00	5.00	10.0	20.0
Vinyl acetate	FB	Ave	50755 2215075	93436	249946	486401	1081193	1.00 40.0	2.00	5.00	10.0	20.0
cis-1,2-Dichloroethene	FB	Ave	39044 1807288	77333	195579	379925	856782	1.00 40.0	2.00	5.00	10.0	20.0
2,2-Dichloropropane	FB	Ave	40374 1512600	70701	178896	365130	781914	1.00 40.0	2.00	5.00	10.0	20.0
2-Butanone (MEK)	FB	Ave	24068 868826	42344	106330	211586	445041	2.00 80.0	4.00	10.0	20.0	40.0
Bromochloromethane	FB	Ave	17112 768914	31640	82533	166955	366606	1.00 40.0	2.00	5.00	10.0	20.0
Tetrahydrofuran	FB	Ave	13861 573712	27947	69050	140016	300612	2.00 80.0	4.00	10.0	20.0	40.0
Chloroform	FB	Ave	61468 2634907	111787	288455	568173	1247640	1.00 40.0	2.00	5.00	10.0	20.0
1,1,1-Trichloroethane	FB	Ave	47471 1936463	85220	212294	440233	949181	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexane	FB	Ave	54748 2393372	103588	236686	611315	1155810	1.00 40.0	2.00	5.00	10.0	20.0
1,1-Dichloropropene	FB	Ave	48854 2157653	89246	223215	474744	1007991	1.00 40.0	2.00	5.00	10.0	20.0
Carbon tetrachloride	FB	Ave	35849 1636274	69263	166229	367845	768361	1.00 40.0	2.00	5.00	10.0	20.0
Isobutyl alcohol	CBZ	Ave	14874 583390	28008	73864	150652	313890	25.0 1000	50.0	125	250	500
Benzene	FB	Ave	163112 7340252	296203	795136	1562907	3386522	1.00 40.0	2.00	5.00	10.0	20.0

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INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 11:11 Calibration End Date: 06/15/2015 13:04 Calibration ID: 28934

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloroethane	FB	Ave	41746 1806092	75937	201291	395052	871723	1.00 40.0	2.00	5.00	10.0	20.0
n-Heptane	FB	Ave	7717 407569	15490	39380	108000	173544	1.00 40.0	2.00	5.00	10.0	20.0
Trichloroethene	FB	Ave	38811 1647592	67028	175085	351744	767983	1.00 40.0	2.00	5.00	10.0	20.0
Methylcyclohexane	FB	Ave	49898 2491805	98476	234810	608210	1138237	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloropropane	FB	Ave	37974 1743887	72023	186374	372095	820169	1.00 40.0	2.00	5.00	10.0	20.0
Dibromomethane	FB	Ave	18635 799520	36227	92907	179991	390723	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dioxane	FB	Lin1	2403 +++++	7043	22136	43358	91167	20.0 +++++	40.0	100	200	400
Bromodichloromethane	FB	Ave	37882 2033935	78902	203397	416966	944136	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloroethyl vinyl ether	FB	Ave	40322 1754666	73401	195800	402393	878166	2.00 80.0	4.00	10.0	20.0	40.0
cis-1,3-Dichloropropene	FB	Ave	41221 2643185	87984	262696	530328	1210762	1.00 40.0	2.00	5.00	10.0	20.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	47470 1963648	87885	226858	483777	1028172	2.00 80.0	4.00	10.0	20.0	40.0
Toluene	CBZ	Ave	161804 7575168	315805	809672	1603932	3549614	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,3-Dichloropropene	CBZ	Ave	33593 2108230	72531	207010	424541	990794	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl methacrylate	CBZ	Ave	37208 1853637	74248	199661	411513	904235	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2-Trichloroethane	CBZ	Ave	30017 1285752	56620	151591	293121	616818	1.00 40.0	2.00	5.00	10.0	20.0
Tetrachloroethene	CBZ	Ave	26492 1184817	48669	124415	251988	547272	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichloropropane	CBZ	Ave	56133 2388176	103790	269933	526478	1159610	1.00 40.0	2.00	5.00	10.0	20.0
2-Hexanone	CBZ	Ave	27576 1335382	59001	155500	328594	671453	2.00 80.0	4.00	10.0	20.0	40.0
Chlorodibromomethane	CBZ	Lin1	17290 1297451	38364	119717	252543	585031	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromoethane	CBZ	Ave	26614 1174289	52159	132615	269162	579280	1.00 40.0	2.00	5.00	10.0	20.0
Chlorobenzene	CBZ	Ave	98202 4323671	186009	477886	935044	2039603	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 11:11 Calibration End Date: 06/15/2015 13:04 Calibration ID: 28934

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,1,2-Tetrachloroethane	CBZ	Ave	28176 1355624	52593	149690	293026	642932	1.00 40.0	2.00	5.00	10.0	20.0
Ethylbenzene	CBZ	Ave	54685 2477574	101693	261822	537179	1147834	1.00 40.0	2.00	5.00	10.0	20.0
m-Xylene & p-Xylene	CBZ	Ave	64671 2996861	128098	326163	647129	1431277	1.00 40.0	2.00	5.00	10.0	20.0
o-Xylene	CBZ	Ave	63800 2794228	118717	306093	611254	1339185	1.00 40.0	2.00	5.00	10.0	20.0
Styrene	CBZ	Ave	103740 5078923	200764	534313	1091300	2411424	1.00 40.0	2.00	5.00	10.0	20.0
Bromoform	CBZ	Lin1	7687 648211	16679	52081	122457	290744	1.00 40.0	2.00	5.00	10.0	20.0
Isopropylbenzene	CBZ	Ave	147659 6845667	286197	741796	1509731	3315533	1.00 40.0	2.00	5.00	10.0	20.0
1,1,2,2-Tetrachloroethane	DCB	Ave	34158 1259927	60138	157901	316551	670438	1.00 40.0	2.00	5.00	10.0	20.0
Bromobenzene	DCB	Ave	36880 1530298	65595	173153	340797	738548	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichloropropane	DCB	Ave	9874 369686	18473	46985	95316	199032	1.00 40.0	2.00	5.00	10.0	20.0
trans-1,4-Dichloro-2-butene	DCB	Lin1	1673 +++++	4464	15895	42750	100542	1.00 +++++	2.00	5.00	10.0	20.0
N-Propylbenzene	DCB	Ave	38556 1769740	75775	193506	399599	865606	1.00 40.0	2.00	5.00	10.0	20.0
2-Chlorotoluene	DCB	Ave	33552 1459387	66703	170464	330938	719691	1.00 40.0	2.00	5.00	10.0	20.0
1,3,5-Trimethylbenzene	DCB	Ave	110886 4931141	213296	568641	1125085	2477224	1.00 40.0	2.00	5.00	10.0	20.0
4-Chlorotoluene	DCB	Ave	35773 1560458	65232	179401	356050	773798	1.00 40.0	2.00	5.00	10.0	20.0
tert-Butylbenzene	DCB	Ave	98755 3944211	179331	462103	904765	1979377	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trimethylbenzene	DCB	Ave	114027 4965182	219333	579870	1160015	2489004	1.00 40.0	2.00	5.00	10.0	20.0
sec-Butylbenzene	DCB	Ave	125556 5629998	240590	644503	1316228	2808164	1.00 40.0	2.00	5.00	10.0	20.0
1,3-Dichlorobenzene	DCB	Ave	60910 2531943	116478	305167	595819	1276344	1.00 40.0	2.00	5.00	10.0	20.0
4-Isopropyltoluene	DCB	Ave	101888 4542673	202870	547478	1090839	2300101	1.00 40.0	2.00	5.00	10.0	20.0
1,4-Dichlorobenzene	DCB	Ave	62701 2592214	121223	310850	596602	1300087	1.00 40.0	2.00	5.00	10.0	20.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 11:11 Calibration End Date: 06/15/2015 13:04 Calibration ID: 28934

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
n-Butylbenzene	DCB	Ave	85287 3713735	161614	431028	894900	1887729	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichlorobenzene	DCB	Ave	58240 2218674	103078	271674	531015	1121265	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	3146 136486	5437	15562	33491	74145	1.00 40.0	2.00	5.00	10.0	20.0
1,2,4-Trichlorobenzene	DCB	Ave	23186 926881	44304	108845	212871	458869	1.00 40.0	2.00	5.00	10.0	20.0
Hexachlorobutadiene	DCB	Ave	6457 319999	14417	37293	75875	150939	1.00 40.0	2.00	5.00	10.0	20.0
Naphthalene	DCB	Ave	53585 2312856	109809	280591	552691	1198971	1.00 40.0	2.00	5.00	10.0	20.0
1,2,3-Trichlorobenzene	DCB	Ave	19480 816824	36613	99005	182295	399624	1.00 40.0	2.00	5.00	10.0	20.0
Dibromofluoromethane (Surr)	FB	Ave	27211 1305488	50162	143105	269018	599871	1.00 40.0	2.00	5.00	10.0	20.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	31394 1529685	63385	170740	327835	717291	1.00 40.0	2.00	5.00	10.0	20.0
Toluene-d8 (Surr)	CBZ	Ave	121986 6062184	237133	628709	1261594	2773486	1.00 40.0	2.00	5.00	10.0	20.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	39098 1849559	75846	216145	406288	896091	1.00 40.0	2.00	5.00	10.0	20.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 13:50 Calibration End Date: 06/15/2015 15:43 Calibration ID: 28936

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-185123/13	UXJ7009.D
Level 2	STD2 240-185123/12	UXJ7008.D
Level 3	STD3 240-185123/11	UXJ7007.D
Level 4	STD4 240-185123/10	UXJ7006.D
Level 5	STD5 240-185123/9	UXJ7005.D
Level 6	STD6 240-185123/8	UXJ7004.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								
Acetonitrile	0.0295 0.0261	0.0273	0.0287	0.0273	0.0285	Ave		0.0279				4.3		15.0			
Diisopropyl ether	0.3258 0.3641	0.3075	0.3551	0.3572	0.3668	Ave		0.3461				6.9		15.0			
2-Chloro-1,3-butadiene	0.5395 0.5719	0.5406	0.5591	0.5469	0.5772	Ave		0.5559				2.9		15.0			
Ethyl tert-butyl ether	1.0338 1.1126	0.9770	1.0904	1.0584	1.1109	Ave		1.0638				4.9		15.0			
Ethyl acetate	0.0619 0.0618	0.0684	0.0626	0.0645	0.0635	Ave		0.0638				3.9		15.0			
Propionitrile	0.0328 0.0334	0.0309	0.0336	0.0332	0.0343	Ave		0.0330				3.5		15.0			
Methacrylonitrile	0.1749 0.1825	0.1668	0.1807	0.1776	0.1829	Ave		0.1776				3.4		15.0			
Tert-amyl methyl ether	0.9433 1.0422	0.9151	1.0045	0.9626	1.0237	Ave		0.9819				5.0		15.0			
n-Butanol	0.0056 0.0062	0.0059	0.0066	0.0068	0.0073	Ave		0.0064				9.9		15.0			
Ethyl acrylate	0.3752 0.3825	0.3345	0.3665	0.3647	0.3813	Ave		0.3675				4.8		15.0			
Methyl methacrylate	0.2534 0.2704	0.2421	0.2618	0.2573	0.2712	Ave		0.2594				4.2		15.0			
2-Nitropropane	0.0561 0.0585	0.0534	0.0574	0.0547	0.0572	Ave		0.0562				3.4		15.0			
n-Butyl acetate	0.1378 0.1311	0.1272	0.1193	0.1215	0.1281	Ave		0.1275				5.2		15.0			
1-Chlorohexane	0.5906 0.6437	0.5915	0.6079	0.6058	0.6546	Ave		0.6157				4.4		15.0			
Cyclohexanone	0.0172 0.0160	0.0153	0.0168	0.0180	0.0189	Ave		0.0170				7.7		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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 13:50 Calibration End Date: 06/15/2015 15:43 Calibration ID: 28936

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								
1,2,3-Trimethylbenzene	3.4037 3.8998	3.2854	3.6314	3.6205	3.9065	Ave		3.6246				7.0		15.0			
1,3,5-Trichlorobenzene	0.8372 0.8837	0.7718	0.8462	0.8532	0.8701	Ave		0.8437				4.6		15.0			
2-Methylnaphthalene	1.0406 0.9977	1.0857	1.1582	1.1951	1.2156	Ave		1.1155				7.9		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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 13:50 Calibration End Date: 06/15/2015 15:43 Calibration ID: 28936

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 240-185123/13	UXJ7009.D
Level 2	STD2 240-185123/12	UXJ7008.D
Level 3	STD3 240-185123/11	UXJ7007.D
Level 4	STD4 240-185123/10	UXJ7006.D
Level 5	STD5 240-185123/9	UXJ7005.D
Level 6	STD6 240-185123/8	UXJ7004.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Acetonitrile	FB	Ave	25965 924235	47232	122747	241427	503964	10.0 400	20.0	50.0	100	200
Diisopropyl ether	FB	Ave	28703 1286786	53255	152121	315389	647795	1.00 40.0	2.00	5.00	10.0	20.0
2-Chloro-1,3-butadiene	FB	Ave	47528 2021347	93627	239538	482924	1019290	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl tert-butyl ether	FB	Ave	91070 3932501	169196	467110	934548	1961776	1.00 40.0	2.00	5.00	10.0	20.0
Ethyl acetate	FB	Ave	10899 436899	23684	53670	113897	224240	2.00 80.0	4.00	10.0	20.0	40.0
Propionitrile	FB	Ave	28892 1181759	53495	144156	292866	606065	10.0 400	20.0	50.0	100	200
Methacrylonitrile	FB	Ave	154103 6450351	288865	774066	1567994	3230054	10.0 400	20.0	50.0	100	200
Tert-amyl methyl ether	FB	Ave	83094 3683588	158478	430319	849982	1807803	1.00 40.0	2.00	5.00	10.0	20.0
n-Butanol	CBZ	Ave	9639 420906	19588	54166	114812	241820	25.0 1000	50.0	125	250	500
Ethyl acrylate	FB	Ave	33056 1351839	57937	157019	322067	673340	1.00 40.0	2.00	5.00	10.0	20.0
Methyl methacrylate	FB	Ave	44637 1911809	83868	224275	454442	957661	2.00 80.0	4.00	10.0	20.0	40.0
2-Nitropropane	FB	Ave	9879 413420	18483	49143	96608	201922	2.00 80.0	4.00	10.0	20.0	40.0
n-Butyl acetate	FB	Ave	12135 463531	22036	51111	107287	226271	1.00 40.0	2.00	5.00	10.0	20.0
1-Chlorohexane	CBZ	Ave	40921 1762173	79118	200392	409707	869543	1.00 40.0	2.00	5.00	10.0	20.0
Cyclohexanone	DCB	Ave	4780 174025	8283	22844	49601	103475	10.0 400	20.0	50.0	100	200
1,2,3-Trimethylbenzene	DCB	Ave	94383 4246942	177594	494087	997187	2135023	1.00 40.0	2.00	5.00	10.0	20.0

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GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-52142-1 Analy Batch No.: 185123

SDG No.:

Instrument ID: A3UX11 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2015 13:50 Calibration End Date: 06/15/2015 15:43 Calibration ID: 28936

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,3,5-Trichlorobenzene	DCB	Ave	23214 962316	41720	115140	235003	475552	1.00 40.0	2.00	5.00	10.0	20.0
2-Methylnaphthalene	DCB	Ave	57708 2173044	117377	315173	658313	1328660	2.00 80.0	4.00	10.0	20.0	40.0

Curve Type Legend:
Ave = Average ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Lab Sample ID: ICV 240-185123/14 Calibration Date: 06/15/2015 13:27

Instrument ID: A3UX11 Calib Start Date: 06/15/2015 11:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/15/2015 13:04

Lab File ID: UXJ7003.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	0.1950	0.2186	0.1000	0.0112	0.0100	12.1	20.0
Chloromethane	Ave	0.2753	0.2617	0.1000	0.00951	0.0100	-4.9	20.0
Vinyl chloride	Ave	0.2659	0.2560	0.1000	0.00963	0.0100	-3.7	20.0
Butadiene	Ave	0.2873	0.2785		0.00970	0.0100	-3.0	20.0
Bromomethane	Ave	0.1291	0.1261	0.0500	0.00977	0.0100	-2.3	20.0
Chloroethane	Ave	0.1371	0.1317	0.0500	0.00961	0.0100	-3.9	20.0
Dichlorofluoromethane	Ave	0.3683	0.3403		0.00924	0.0100	-7.6	20.0
Trichlorofluoromethane	Ave	0.3280	0.3482	0.1000	0.0106	0.0100	6.2	20.0
Ethyl ether	Ave	0.3243	0.3102		0.00957	0.0100	-4.3	20.0
Acrolein	Lin1		0.0327		0.0636	0.0500	27.1*	20.0
1,1-Dichloroethene	Ave	0.3389	0.3198	0.1000	0.00944	0.0100	-5.6	20.0
1,1,2-Trichlorotrifluoroethane	Ave	0.1470	0.1561	0.0500	0.0106	0.0100	6.2	20.0
Acetone	Ave	0.0745	0.0645	0.0500	0.0173	0.0200	-13.4	20.0
Iodomethane	Ave	0.4599	0.4284		0.00931	0.0100	-6.9	20.0
Carbon disulfide	Ave	1.068	1.051	0.1000	0.00984	0.0100	-1.6	20.0
3-Chloro-1-propene	Ave	0.2934	0.2428		0.00828	0.0100	-17.2	20.0
Methyl acetate	Ave	0.2028	0.1921	0.1000	0.0474	0.0500	-5.3	20.0
Methylene Chloride	Lin1		0.3591	0.1000	0.00929	0.0100	-7.1	20.0
tert-Butyl alcohol	Ave	0.0184	0.0170		0.0924	0.100	-7.6	20.0
Acrylonitrile	Ave	0.1064	0.1049		0.0986	0.100	-1.4	20.0
Methyl tert-butyl ether	Ave	1.025	0.9550	0.1000	0.00931	0.0100	-6.9	20.0
trans-1,2-Dichloroethene	Ave	0.4158	0.3997	0.1000	0.00961	0.0100	-3.9	20.0
Hexane	Ave	0.1021	0.1170		0.0115	0.0100	14.7	20.0
1,1-Dichloroethane	Ave	0.7172	0.6691	0.1000	0.00933	0.0100	-6.7	20.0
Vinyl acetate	Ave	0.5384	0.6417		0.0119	0.0100	19.2	20.0
cis-1,2-Dichloroethene	Ave	0.4276	0.3998	0.1000	0.00935	0.0100	-6.5	20.0
2,2-Dichloropropane	Ave	0.3976	0.3684		0.00926	0.0100	-7.4	20.0
2-Butanone (MEK)	Ave	0.1165	0.1106	0.0500	0.0190	0.0200	-5.0	20.0
Bromochloromethane	Ave	0.1826	0.1677		0.00919	0.0100	-8.1	20.0
Tetrahydrofuran	Ave	0.0751	0.0710		0.0189	0.0200	-5.4	20.0
Chloroform	Ave	0.6348	0.5926	0.2000	0.00933	0.0100	-6.7	20.0
1,1,1-Trichloroethane	Ave	0.4807	0.4610	0.1000	0.00959	0.0100	-4.1	20.0
Cyclohexane	Ave	0.5859	0.6399	0.1000	0.0109	0.0100	9.2	20.0
1,1-Dichloropropene	Ave	0.5106	0.5297		0.0104	0.0100	3.7	20.0
Carbon tetrachloride	Ave	0.3870	0.3946	0.1000	0.0102	0.0100	1.9	20.0
Isobutyl alcohol	Ave	0.0082	0.0069		0.210	0.250	-16.1	20.0
1,2-Dichloroethane	Ave	0.4375	0.4229	0.1000	0.00967	0.0100	-3.3	20.0
Benzene	Ave	1.724	1.623	0.5000	0.00941	0.0100	-5.9	20.0
n-Heptane	Ave	0.0930	0.1137		0.0122	0.0100	22.2*	20.0
Trichloroethene	Ave	0.3914	0.3834	0.2000	0.00980	0.0100	-2.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Lab Sample ID: ICV 240-185123/14 Calibration Date: 06/15/2015 13:27

Instrument ID: A3UX11 Calib Start Date: 06/15/2015 11:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/15/2015 13:04

Lab File ID: UXJ7003.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
Methylcyclohexane	Ave	0.5728	0.6396	0.1000	0.0112	0.0100	11.7	20.0
1,2-Dichloropropane	Ave	0.4103	0.3857	0.1000	0.00940	0.0100	-6.0	20.0
1,4-Dioxane	Lin1		0.0018		0.155	0.200	-22.6*	20.0
Dibromomethane	Ave	0.1991	0.1852		0.00930	0.0100	-7.0	20.0
Bromodichloromethane	Ave	0.4523	0.4320	0.1000	0.00955	0.0100	-4.5	20.0
2-Chloroethyl vinyl ether	Ave	0.2151	0.2048		0.00952	0.0100	-4.8	20.0
cis-1,3-Dichloropropene	Ave	0.5547	0.5484	0.1500	0.00989	0.0100	-1.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2520	0.2528	0.0500	0.0201	0.0200	0.3	20.0
Toluene	Ave	2.330	2.169	0.4000	0.00931	0.0100	-6.9	20.0
trans-1,3-Dichloropropene	Ave	0.5878	0.6279	0.1000	0.0107	0.0100	6.8	20.0
Ethyl methacrylate	Ave	0.5697	0.5715		0.0100	0.0100	0.3	20.0
1,1,2-Trichloroethane	Ave	0.4188	0.3898	0.1000	0.00931	0.0100	-6.9	20.0
1,3-Dichloropropane	Ave	0.7689	0.7194		0.00936	0.0100	-6.4	20.0
Tetrachloroethene	Ave	0.3649	0.3368	0.2000	0.00923	0.0100	-7.7	20.0
2-Hexanone	Ave	0.2171	0.2139	0.0500	0.0197	0.0200	-1.5	20.0
Chlorodibromomethane	Lin1		0.3284		0.00872	0.0100	-12.8	20.0
1,2-Dibromoethane	Ave	0.3803	0.3639		0.00957	0.0100	-4.3	20.0
Chlorobenzene	Ave	1.365	1.253	0.3000	0.00918	0.0100	-8.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4148	0.3934		0.00948	0.0100	-5.2	20.0
Ethylbenzene	Ave	0.7647	0.7119		0.00931	0.0100	-6.9	20.0
m-Xylene & p-Xylene	Ave	0.9362	0.8650		0.00924	0.0100	-7.6	20.0
o-Xylene	Ave	0.8840	0.8248		0.00933	0.0100	-6.7	20.0
Styrene	Ave	1.540	1.378	0.3000	0.00895	0.0100	-10.5	20.0
Bromoform	Lin1		0.1467	0.1000	0.00803	0.0100	-19.7	20.0
Isopropylbenzene	Ave	2.141	2.031	0.1000	0.00948	0.0100	-5.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.047	0.9884	0.3000	0.00944	0.0100	-5.6	20.0
Bromobenzene	Ave	1.160	1.029		0.00887	0.0100	-11.3	20.0
1,2,3-Trichloropropane	Ave	0.3112	0.2920		0.00938	0.0100	-6.2	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.1341		0.00946	0.0100	-5.4	20.0
N-Propylbenzene	Ave	1.315	1.211		0.00921	0.0100	-7.9	20.0
2-Chlorotoluene	Ave	1.121	1.032		0.00921	0.0100	-7.9	20.0
1,3,5-Trimethylbenzene	Ave	3.747	3.519		0.00939	0.0100	-6.1	20.0
4-Chlorotoluene	Ave	1.180	1.111		0.00942	0.0100	-5.8	20.0
tert-Butylbenzene	Ave	3.091	2.855		0.00924	0.0100	-7.6	20.0
1,2,4-Trimethylbenzene	Ave	3.821	3.522		0.00922	0.0100	-7.8	20.0
sec-Butylbenzene	Ave	4.270	4.060		0.00951	0.0100	-4.9	20.0
1,3-Dichlorobenzene	Ave	1.992	1.845	0.6000	0.00926	0.0100	-7.4	20.0
4-Isopropyltoluene	Ave	3.528	3.276		0.00929	0.0100	-7.1	20.0
1,4-Dichlorobenzene	Ave	2.037	1.843	0.5000	0.00905	0.0100	-9.5	20.0
n-Butylbenzene	Ave	2.869	2.658		0.00927	0.0100	-7.3	20.0
1,2-Dichlorobenzene	Ave	1.787	1.619	0.4000	0.00906	0.0100	-9.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Lab Sample ID: ICV 240-185123/14 Calibration Date: 06/15/2015 13:27

Instrument ID: A3UX11 Calib Start Date: 06/15/2015 11:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/15/2015 13:04

Lab File ID: UXJ7003.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-Dibromo-3-Chloropropane	Ave	0.1054	0.0997	0.0500	0.00947	0.0100	-5.3	20.0
1,2,4-Trichlorobenzene	Ave	0.7311	0.6119	0.2000	0.00837	0.0100	-16.3	20.0
Hexachlorobutadiene	Ave	0.2398	0.2061		0.00859	0.0100	-14.1	20.0
Naphthalene	Ave	1.833	1.613		0.00880	0.0100	-12.0	20.0
1,2,3-Trichlorobenzene	Ave	0.6311	0.5464		0.00866	0.0100	-13.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2997	0.2952		0.00731	0.00743	-1.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3592	0.3377		0.00698	0.00743	-6.0	20.0
Toluene-d8 (Surr)	Ave	1.806	1.772		0.00729	0.00743	-1.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5818	0.6083		0.00776	0.00743	4.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Lab Sample ID: ICV 240-185123/15 Calibration Date: 06/15/2015 16:05

Instrument ID: A3UX11 Calib Start Date: 06/15/2015 13:50

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/15/2015 15:43

Lab File ID: UXJ7010.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
Acetonitrile	Ave	0.0279	0.0282		0.101	0.100	0.9	20.0
Diisopropyl ether	Ave	0.3461	0.3706		0.0107	0.0100	7.1	20.0
2-Chloro-1,3-butadiene	Ave	0.5559	0.5739		0.0103	0.0100	3.2	20.0
Ethyl tert-butyl ether	Ave	1.064	1.096		0.0103	0.0100	3.0	20.0
Ethyl acetate	Ave	0.0638	0.1368		0.0429	0.0200	114.5*	20.0
Propionitrile	Ave	0.0330	0.0354		0.107	0.100	7.2	20.0
Methacrylonitrile	Ave	0.1776	0.1860		0.105	0.100	4.7	20.0
Tert-amyl methyl ether	Ave	0.9819	1.013		0.0103	0.0100	3.1	20.0
n-Butanol	Ave	0.0064	0.0059		0.231	0.250	-7.7	20.0
Ethyl acrylate	Ave	0.3675	0.3824		0.0104	0.0100	4.1	20.0
Methyl methacrylate	Ave	0.2594	0.2658		0.0205	0.0200	2.5	20.0
2-Nitropropane	Ave	0.0562	0.0562		0.0200	0.0200	0.0	20.0
n-Butyl acetate	Ave	0.1275	0.2360		1.00	0.0100	85.1*	20.0
1-Chlorohexane	Ave	0.6157	0.6142		0.00997	0.0100	-0.3	20.0
Cyclohexanone	Ave	0.0170	0.0151		0.0884	0.100	-11.6	20.0
1,2,3-Trimethylbenzene	Ave	3.625	3.596		0.00992	0.0100	-0.8	20.0
1,3,5-Trichlorobenzene	Ave	0.8437	0.8496		0.0101	0.0100	0.7	20.0
2-Methylnaphthalene	Ave	1.115	0.8220		0.0147	0.0200	-26.3*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Lab Sample ID: CCVIS 240-186324/2 Calibration Date: 06/23/2015 12:10

Instrument ID: A3UX11 Calib Start Date: 06/15/2015 11:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/15/2015 13:04

Lab File ID: UXJ7231.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	0.1950	0.1866	0.1000	0.00957	0.0100	-4.3	20.0
Chloromethane	Ave	0.2753	0.3065	0.1000	0.0111	0.0100	11.3	20.0
Vinyl chloride	Ave	0.2659	0.2901	0.1000	0.0109	0.0100	9.1	20.0
Butadiene	Ave	0.2873	0.3108		0.0108	0.0100	8.2	20.0
Bromomethane	Ave	0.1291	0.1700	0.0500	0.0132	0.0100	31.6*	20.0
Chloroethane	Ave	0.1371	0.1822	0.0500	0.0133	0.0100	32.9*	20.0
Dichlorofluoromethane	Ave	0.3683	0.4377		0.0119	0.0100	18.8	20.0
Trichlorofluoromethane	Ave	0.3280	0.3445	0.1000	0.0105	0.0100	5.0	20.0
Ethyl ether	Ave	0.3243	0.3112		0.00960	0.0100	-4.0	20.0
Acrolein	Lin1		0.0314		0.0609	0.0500	21.8*	20.0
1,1-Dichloroethene	Ave	0.3389	0.3370	0.1000	0.00995	0.0100	-0.5	20.0
1,1,2-Trichlorotrifluoroethane	Ave	0.1470	0.1583	0.0500	0.0108	0.0100	7.7	20.0
Acetone	Ave	0.0745	0.0692	0.0500	0.0186	0.0200	-7.1	20.0
Iodomethane	Ave	0.4599	0.4245		0.00923	0.0100	-7.7	20.0
Carbon disulfide	Ave	1.068	1.071	0.1000	0.0100	0.0100	0.2	20.0
3-Chloro-1-propene	Ave	0.2934	0.2912		0.00993	0.0100	-0.7	20.0
Methyl acetate	Ave	0.2028	0.1700	0.1000	0.0419	0.0500	-16.2	20.0
Methylene Chloride	Lin1		0.3857	0.1000	0.0100	0.0100	0.4	20.0
tert-Butyl alcohol	Ave	0.0184	0.0129		0.0701	0.100	-29.9*	20.0
Acrylonitrile	Ave	0.1064	0.0876		0.0823	0.100	-17.7	20.0
Methyl tert-butyl ether	Ave	1.025	0.9136	0.1000	0.00891	0.0100	-10.9	20.0
trans-1,2-Dichloroethene	Ave	0.4158	0.3973	0.1000	0.00955	0.0100	-4.5	20.0
Hexane	Ave	0.1021	0.1050		0.0103	0.0100	2.9	20.0
1,1-Dichloroethane	Ave	0.7172	0.6826	0.1000	0.00952	0.0100	-4.8	20.0
Vinyl acetate	Ave	0.5384	0.4131		0.00767	0.0100	-23.3*	20.0
cis-1,2-Dichloroethene	Ave	0.4276	0.4154	0.1000	0.00971	0.0100	-2.9	20.0
2,2-Dichloropropane	Ave	0.3976	0.3753		0.00944	0.0100	-5.6	20.0
2-Butanone (MEK)	Ave	0.1165	0.0867	0.0500	0.0149	0.0200	-25.6*	20.0
Bromochloromethane	Ave	0.1826	0.1667		0.00913	0.0100	-8.7	20.0
Tetrahydrofuran	Ave	0.0751	0.0607		0.0162	0.0200	-19.1	20.0
Chloroform	Ave	0.6348	0.6292	0.2000	0.00991	0.0100	-0.9	20.0
1,1,1-Trichloroethane	Ave	0.4807	0.4717	0.1000	0.00981	0.0100	-1.9	20.0
Cyclohexane	Ave	0.5859	0.5785	0.1000	0.00987	0.0100	-1.3	20.0
1,1-Dichloropropene	Ave	0.5106	0.5046		0.00988	0.0100	-1.2	20.0
Carbon tetrachloride	Ave	0.3870	0.3531	0.1000	0.00912	0.0100	-8.8	20.0
Isobutyl alcohol	Ave	0.0082	0.0060		0.182	0.250	-27.0*	20.0
1,2-Dichloroethane	Ave	0.4375	0.4237	0.1000	0.00969	0.0100	-3.1	20.0
Benzene	Ave	1.724	1.656	0.5000	0.00960	0.0100	-4.0	20.0
n-Heptane	Ave	0.0930	0.0902		0.00970	0.0100	-3.0	20.0
Trichloroethene	Ave	0.3914	0.3633	0.2000	0.00928	0.0100	-7.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Lab Sample ID: CCVIS 240-186324/2 Calibration Date: 06/23/2015 12:10

Instrument ID: A3UX11 Calib Start Date: 06/15/2015 11:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/15/2015 13:04

Lab File ID: UXJ7231.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
Methylcyclohexane	Ave	0.5728	0.5474	0.1000	0.00956	0.0100	-4.4	20.0
1,2-Dichloropropane	Ave	0.4103	0.3900	0.1000	0.00950	0.0100	-5.0	20.0
Dibromomethane	Ave	0.1991	0.1774		0.00891	0.0100	-10.9	20.0
1,4-Dioxane	Lin1		0.0016		0.143	0.200	-28.7*	20.0
Bromodichloromethane	Ave	0.4523	0.4559	0.1000	0.0101	0.0100	0.8	20.0
2-Chloroethyl vinyl ether	Ave	0.2151	0.1912		0.0178	0.0200	-11.1	20.0
cis-1,3-Dichloropropene	Ave	0.5547	0.5758	0.1500	0.0104	0.0100	3.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2520	0.2194	0.0500	0.0174	0.0200	-12.9	20.0
Toluene	Ave	2.330	2.298	0.4000	0.00986	0.0100	-1.4	20.0
trans-1,3-Dichloropropene	Ave	0.5878	0.6233	0.1000	0.0106	0.0100	6.0	20.0
Ethyl methacrylate	Ave	0.5697	0.5319		0.00934	0.0100	-6.6	20.0
1,1,2-Trichloroethane	Ave	0.4188	0.3778	0.1000	0.00902	0.0100	-9.8	20.0
1,3-Dichloropropane	Ave	0.7689	0.7007		0.00911	0.0100	-8.9	20.0
Tetrachloroethene	Ave	0.3649	0.3327	0.2000	0.00912	0.0100	-8.8	20.0
2-Hexanone	Ave	0.2171	0.1788	0.0500	0.0165	0.0200	-17.7	20.0
Chlorodibromomethane	Lin1		0.3587		0.00948	0.0100	-5.2	20.0
1,2-Dibromoethane	Ave	0.3803	0.3294		0.00866	0.0100	-13.4	20.0
Chlorobenzene	Ave	1.365	1.206	0.3000	0.00884	0.0100	-11.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4148	0.3732		0.00900	0.0100	-10.0	20.0
Ethylbenzene	Ave	0.7647	0.6852		0.00896	0.0100	-10.4	20.0
m-Xylene & p-Xylene	Ave	0.9362	0.8389		0.00896	0.0100	-10.4	20.0
o-Xylene	Ave	0.8840	0.7647		0.00865	0.0100	-13.5	20.0
Styrene	Ave	1.540	1.310	0.3000	0.00851	0.0100	-14.9	20.0
Bromoform	Lin1		0.1531	0.1000	0.00835	0.0100	-16.5	20.0
Isopropylbenzene	Ave	2.141	1.806	0.1000	0.00843	0.0100	-15.7	20.0
1,1,2,2-Tetrachloroethane	Ave	1.047	0.9751	0.3000	0.00932	0.0100	-6.8	20.0
Bromobenzene	Ave	1.160	1.127		0.00972	0.0100	-2.8	20.0
1,2,3-Trichloropropane	Ave	0.3112	0.3177		0.0102	0.0100	2.1	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.2859		0.0192	0.0100	92.2*	20.0
N-Propylbenzene	Ave	1.315	1.476		0.0112	0.0100	12.2	20.0
2-Chlorotoluene	Ave	1.121	1.205		0.0108	0.0100	7.5	20.0
1,3,5-Trimethylbenzene	Ave	3.747	3.981		0.0106	0.0100	6.3	20.0
4-Chlorotoluene	Ave	1.180	1.277		0.0108	0.0100	8.2	20.0
tert-Butylbenzene	Ave	3.091	3.033		0.00981	0.0100	-1.9	20.0
1,2,4-Trimethylbenzene	Ave	3.821	3.934		0.0103	0.0100	3.0	20.0
sec-Butylbenzene	Ave	4.270	4.361		0.0102	0.0100	2.1	20.0
1,3-Dichlorobenzene	Ave	1.992	1.761	0.6000	0.00884	0.0100	-11.6	20.0
4-Isopropyltoluene	Ave	3.528	3.459		0.00981	0.0100	-1.9	20.0
1,4-Dichlorobenzene	Ave	2.037	1.837	0.5000	0.00902	0.0100	-9.8	20.0
n-Butylbenzene	Ave	2.869	2.942		0.0103	0.0100	2.5	20.0
1,2-Dichlorobenzene	Ave	1.787	1.549	0.4000	0.00866	0.0100	-13.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Lab Sample ID: CCVIS 240-186324/2 Calibration Date: 06/23/2015 12:10

Instrument ID: A3UX11 Calib Start Date: 06/15/2015 11:11

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/15/2015 13:04

Lab File ID: UXJ7231.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-Dibromo-3-Chloropropane	Ave	0.1054	0.1206	0.0500	0.0114	0.0100	14.5	20.0
1,2,4-Trichlorobenzene	Ave	0.7311	0.8679	0.2000	0.0119	0.0100	18.7	20.0
Hexachlorobutadiene	Ave	0.2398	0.2809		0.0117	0.0100	17.1	20.0
Naphthalene	Ave	1.833	2.178		0.0119	0.0100	18.9	20.0
1,2,3-Trichlorobenzene	Ave	0.6311	0.6906		0.0109	0.0100	9.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2997	0.3014		0.00747	0.00743	0.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3592	0.3491		0.00722	0.00743	-2.8	20.0
Toluene-d8 (Surr)	Ave	1.806	1.921		0.00790	0.00743	6.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.5818	0.5283		0.00674	0.00743	-9.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Lab Sample ID: CCV 240-186324/3 Calibration Date: 06/23/2015 12:56

Instrument ID: A3UX11 Calib Start Date: 06/15/2015 13:50

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/15/2015 15:43

Lab File ID: UXJ7233.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
Acetonitrile	Ave	0.0279	0.0213		0.0764	0.100	-23.6*	20.0
Diisopropyl ether	Ave	0.3461	0.3294		0.00952	0.0100	-4.8	20.0
2-Chloro-1,3-butadiene	Ave	0.5559	0.5572		0.0100	0.0100	0.2	20.0
Ethyl tert-butyl ether	Ave	1.064	1.036		0.00974	0.0100	-2.6	20.0
Ethyl acetate	Ave	0.0638	0.0624		0.0196	0.0200	-2.1	20.0
Propionitrile	Ave	0.0330	0.0301		0.0910	0.100	-9.0	20.0
Methacrylonitrile	Ave	0.1776	0.1692		0.0953	0.100	-4.7	20.0
Tert-amyl methyl ether	Ave	0.9819	0.9502		0.00968	0.0100	-3.2	20.0
n-Butanol	Ave	0.0064	0.0045		0.178	0.250	-28.8*	20.0
Ethyl acrylate	Ave	0.3675	0.3420		0.00931	0.0100	-6.9	20.0
Methyl methacrylate	Ave	0.2594	0.2374		0.0183	0.0200	-8.5	20.0
2-Nitropropane	Ave	0.0562	0.0525		0.0187	0.0200	-6.5	20.0
n-Butyl acetate	Ave	0.1275	0.1188		1.00	0.0100	-6.8	20.0
1-Chlorohexane	Ave	0.6157	0.5742		0.00933	0.0100	-6.7	20.0
Cyclohexanone	Ave	0.0170	0.0187		0.110	0.100	9.9	20.0
1,2,3-Trimethylbenzene	Ave	3.625	3.376		0.00931	0.0100	-6.9	20.0
1,3,5-Trichlorobenzene	Ave	0.8437	0.8752		0.0104	0.0100	3.7	20.0
2-Methylnaphthalene	Ave	1.115	0.8723		0.0156	0.0200	-21.8*	20.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-186324/31

Matrix: Water | Lab File ID: UXJ7237.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 14:27

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.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	0.28	U	1.0	0.28
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	0.45	U	1.0	0.45
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
563-58-6	1,1-Dichloropropene	0.42	U	1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	0.37	U	1.0	0.37
96-18-4	1,2,3-Trichloropropane	0.44	U	1.0	0.44
526-73-8	1,2,3-Trimethylbenzene	0.47	U	5.0	0.47
120-82-1	1,2,4-Trichlorobenzene	0.32	U	1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	0.41	U	1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	0.82	U	2.0	0.82
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
142-28-9	1,3-Dichloropropane	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
594-20-7	2,2-Dichloropropane	0.26	U	1.0	0.26
78-93-3	2-Butanone (MEK)	0.53	U	10	0.53
110-75-8	2-Chloroethyl vinyl ether	0.59	U	10	0.59
95-49-8	2-Chlorotoluene	0.40	U	1.0	0.40
591-78-6	2-Hexanone	0.48	U	10	0.48
106-43-4	4-Chlorotoluene	0.29	U	1.0	0.29
99-87-6	4-Isopropyltoluene	0.43	U	1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	0.99	U	10	0.99
67-64-1	Acetone	2.78	J	10	0.94
71-43-2	Benzene	0.35	U	1.0	0.35
108-86-1	Bromobenzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	1.0	0.44
75-15-0	Carbon disulfide	0.38	U	1.0	0.38
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-186324/31

Matrix: Water | Lab File ID: UXJ7237.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 14:27

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.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	0.32	U	1.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
74-87-3	Chloromethane	0.44	U	1.0	0.44
156-59-2	cis-1,2-Dichloroethene	0.26	U	1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
74-95-3	Dibromomethane	0.42	U	1.0	0.42
74-97-5	Bromochloromethane	0.50	U	1.0	0.50
75-71-8	Dichlorodifluoromethane	0.32	U	1.0	0.32
75-27-4	Bromodichloromethane	0.29	U	1.0	0.29
75-65-0	tert-Butyl alcohol	4.9	U	50	4.9
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
87-68-3	Hexachlorobutadiene	0.35	U	1.0	0.35
108-20-3	Diisopropyl ether	0.50	U	10	0.50
98-82-8	Isopropylbenzene	0.35	U	1.0	0.35
1634-04-4	Methyl tert-butyl ether	0.20	U	1.0	0.20
75-09-2	Methylene Chloride	0.33	U	1.0	0.33
179601-23-1	m-Xylene & p-Xylene	0.24	U	2.0	0.24
91-20-3	Naphthalene	0.45	U	1.0	0.45
104-51-8	n-Butylbenzene	0.31	U	1.0	0.31
103-65-1	N-Propylbenzene	0.40	U	1.0	0.40
95-47-6	o-Xylene	0.25	U	1.0	0.25
135-98-8	sec-Butylbenzene	0.48	U	1.0	0.48
100-42-5	Styrene	0.45	U	1.0	0.45
994-05-8	Tert-amyl methyl ether	0.30	U	5.0	0.30
637-92-3	Ethyl tert-butyl ether	0.23	U	5.0	0.23
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	1.0	0.49
108-05-4	Vinyl acetate	0.41	U	2.0	0.41
75-01-4	Vinyl chloride	0.29	U	1.0	0.29
1330-20-7	Xylenes, Total	0.52	U	2.0	0.52
98-06-6	tert-Butylbenzene	0.41	U	1.0	0.41
106-93-4	1,2-Dibromoethane	0.32	U	1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-186324/31

Matrix: Water Lab File ID: UXJ7237.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/23/2015 14:27

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.: 186324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	109		74-120
1868-53-7	Dibromofluoromethane (Surr)	109		75-121
460-00-4	4-Bromofluorobenzene (Surr)	91		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-186324/4

Matrix: Water | Lab File ID: UXJ7235.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 13:42

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.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	9.67		1.0	0.28
71-55-6	1,1,1-Trichloroethane	10.7		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	10.9		1.0	0.22
76-13-1	1,1,2-Trichlorotrifluoroethane	11.6		1.0	0.45
75-34-3	1,1-Dichloroethane	10.4		1.0	0.30
75-35-4	1,1-Dichloroethene	9.98		1.0	0.45
563-58-6	1,1-Dichloropropene	11.7		1.0	0.42
87-61-6	1,2,3-Trichlorobenzene	12.9		1.0	0.37
96-18-4	1,2,3-Trichloropropane	11.8		1.0	0.44
120-82-1	1,2,4-Trichlorobenzene	12.0		1.0	0.32
95-63-6	1,2,4-Trimethylbenzene	10.8		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	14.2		2.0	0.82
95-50-1	1,2-Dichlorobenzene	9.01		1.0	0.25
107-06-2	1,2-Dichloroethane	10.6		1.0	0.23
78-87-5	1,2-Dichloropropane	10.2		1.0	0.25
541-73-1	1,3-Dichlorobenzene	9.07		1.0	0.19
142-28-9	1,3-Dichloropropane	9.87		1.0	0.19
106-46-7	1,4-Dichlorobenzene	9.27		1.0	0.27
594-20-7	2,2-Dichloropropane	10.4		1.0	0.26
78-93-3	2-Butanone (MEK)	18.9		10	0.53
110-75-8	2-Chloroethyl vinyl ether	10.5		10	0.59
95-49-8	2-Chlorotoluene	11.2		1.0	0.40
591-78-6	2-Hexanone	21.9		10	0.48
106-43-4	4-Chlorotoluene	10.5		1.0	0.29
99-87-6	4-Isopropyltoluene	9.96		1.0	0.43
108-10-1	4-Methyl-2-pentanone (MIBK)	20.8		10	0.99
67-64-1	Acetone	19.8		10	0.94
71-43-2	Benzene	10.2		1.0	0.35
108-86-1	Bromobenzene	10.1		1.0	0.35
75-25-2	Bromoform	8.56		1.0	0.56
74-83-9	Bromomethane	11.4		1.0	0.44
75-15-0	Carbon disulfide	10.5		1.0	0.38
56-23-5	Carbon tetrachloride	10.1		1.0	0.43
108-90-7	Chlorobenzene	9.38		1.0	0.25
124-48-1	Chlorodibromomethane	10.1		1.0	0.43
75-00-3	Chloroethane	12.0		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-186324/4

Matrix: Water | Lab File ID: UXJ7235.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 13:42

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.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-66-3	Chloroform	10.6		1.0	0.25
74-87-3	Chloromethane	9.99		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	10.1		1.0	0.26
10061-01-5	cis-1,3-Dichloropropene	11.2		1.0	0.46
74-95-3	Dibromomethane	9.91		1.0	0.42
74-97-5	Bromochloromethane	9.53		1.0	0.50
75-71-8	Dichlorodifluoromethane	8.92		1.0	0.32
75-27-4	Bromodichloromethane	10.6		1.0	0.29
75-65-0	tert-Butyl alcohol	76.2		50	4.9
100-41-4	Ethylbenzene	9.36		1.0	0.25
87-68-3	Hexachlorobutadiene	10.4		1.0	0.35
98-82-8	Isopropylbenzene	9.06		1.0	0.35
1634-04-4	Methyl tert-butyl ether	9.65		1.0	0.20
75-09-2	Methylene Chloride	10.1		1.0	0.33
179601-23-1	m-Xylene & p-Xylene	9.23		2.0	0.24
91-20-3	Naphthalene	14.0		1.0	0.45
104-51-8	n-Butylbenzene	10.6		1.0	0.31
103-65-1	N-Propylbenzene	12.0		1.0	0.40
95-47-6	o-Xylene	9.23		1.0	0.25
135-98-8	sec-Butylbenzene	10.9		1.0	0.48
100-42-5	Styrene	8.48		1.0	0.45
127-18-4	Tetrachloroethene	9.03		1.0	0.31
108-88-3	Toluene	10.3		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	9.80		1.0	0.30
10061-02-6	trans-1,3-Dichloropropene	12.5		1.0	0.56
79-01-6	Trichloroethene	10.0		1.0	0.22
75-69-4	Trichlorofluoromethane	10.5		1.0	0.49
108-05-4	Vinyl acetate	12.4		2.0	0.41
75-01-4	Vinyl chloride	10.6		1.0	0.29
1330-20-7	Xylenes, Total	18.5		2.0	0.52
98-06-6	tert-Butylbenzene	10.0		1.0	0.41
106-93-4	1,2-Dibromoethane	9.75		1.0	0.32

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-186324/4

Matrix: Water Lab File ID: UXJ7235.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 06/23/2015 13:42

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.: 186324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	108		74-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-121
460-00-4	4-Bromofluorobenzene (Surr)	94		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-3-061715 MS | Lab Sample ID: 240-52142-3 MS

Matrix: Water | Lab File ID: UXJ7258.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:42

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 22:24

Soil Aliquot Vol: | Dilution Factor: 250

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	2020		250	70
71-55-6	1,1,1-Trichloroethane	2070		250	110
79-34-5	1,1,2,2-Tetrachloroethane	2430		250	55
76-13-1	1,1,2-Trichlorotrifluoroethane	1560		250	110
75-34-3	1,1-Dichloroethane	2280		250	75
75-35-4	1,1-Dichloroethene	1980		250	110
563-58-6	1,1-Dichloropropene	2180		250	110
87-61-6	1,2,3-Trichlorobenzene	2730		250	93
96-18-4	1,2,3-Trichloropropane	2580		250	110
526-73-8	1,2,3-Trimethylbenzene	120	U	1300	120
120-82-1	1,2,4-Trichlorobenzene	2480		250	80
95-63-6	1,2,4-Trimethylbenzene	2100		250	100
96-12-8	1,2-Dibromo-3-Chloropropane	3140		500	210
95-50-1	1,2-Dichlorobenzene	1950		250	63
107-06-2	1,2-Dichloroethane	2370		250	58
78-87-5	1,2-Dichloropropane	2280		250	63
541-73-1	1,3-Dichlorobenzene	1860		250	48
142-28-9	1,3-Dichloropropane	2290		250	48
106-46-7	1,4-Dichlorobenzene	1860		250	68
594-20-7	2,2-Dichloropropane	1880		250	65
78-93-3	2-Butanone (MEK)	4340		2500	130
110-75-8	2-Chloroethyl vinyl ether	1870	J	2500	150
95-49-8	2-Chlorotoluene	2230		250	100
591-78-6	2-Hexanone	4650		2500	120
106-43-4	4-Chlorotoluene	2220		250	73
99-87-6	4-Isopropyltoluene	1910		250	110
108-10-1	4-Methyl-2-pentanone (MIBK)	4590		2500	250
67-64-1	Acetone	4000		2500	240
71-43-2	Benzene	2200		250	88
108-86-1	Bromobenzene	2050		250	88
75-25-2	Bromoform	1720		250	140
74-83-9	Bromomethane	2690		250	110
75-15-0	Carbon disulfide	2050		250	95
56-23-5	Carbon tetrachloride	1890		250	110
108-90-7	Chlorobenzene	1990		250	63
124-48-1	Chlorodibromomethane	2130		250	110

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-3-061715 MS | Lab Sample ID: 240-52142-3 MS

Matrix: Water | Lab File ID: UXJ7258.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:42

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 22:24

Soil Aliquot Vol: | Dilution Factor: 250

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	2610		250	80
67-66-3	Chloroform	2340		250	63
74-87-3	Chloromethane	2200		250	110
156-59-2	cis-1,2-Dichloroethene	2180		250	65
10061-01-5	cis-1,3-Dichloropropene	2330		250	120
74-95-3	Dibromomethane	2150		250	110
74-97-5	Bromochloromethane	2100		250	130
75-71-8	Dichlorodifluoromethane	1610		250	80
75-27-4	Bromodichloromethane	2320		250	73
75-65-0	tert-Butyl alcohol	17700		13000	1200
100-41-4	Ethylbenzene	1890		250	63
87-68-3	Hexachlorobutadiene	1960		250	88
108-20-3	Diisopropyl ether	130	U	2500	130
98-82-8	Isopropylbenzene	1740		250	88
1634-04-4	Methyl tert-butyl ether	2220		250	50
75-09-2	Methylene Chloride	2210		250	83
179601-23-1	m-Xylene & p-Xylene	1890		500	60
91-20-3	Naphthalene	3110		250	110
104-51-8	n-Butylbenzene	1890		250	78
103-65-1	N-Propylbenzene	2210		250	100
95-47-6	o-Xylene	1880		250	63
135-98-8	sec-Butylbenzene	2010		250	120
100-42-5	Styrene	1770		250	110
994-05-8	Tert-amyl methyl ether	75	U	1300	75
637-92-3	Ethyl tert-butyl ether	58	U	1300	58
127-18-4	Tetrachloroethene	1680		250	78
108-88-3	Toluene	2200		250	58
156-60-5	trans-1,2-Dichloroethene	2130		250	75
10061-02-6	trans-1,3-Dichloropropene	2560		250	140
79-01-6	Trichloroethene	7740		250	55
75-69-4	Trichlorofluoromethane	2000		250	120
108-05-4	Vinyl acetate	2780		500	100
75-01-4	Vinyl chloride	2310		250	73
1330-20-7	Xylenes, Total	3770		500	130
98-06-6	tert-Butylbenzene	2000		250	100
106-93-4	1,2-Dibromoethane	2170		250	80

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-3-061715 MS Lab Sample ID: 240-52142-3 MS

Matrix: Water Lab File ID: UXJ7258.D

Analysis Method: 8260C Date Collected: 06/17/2015 13:42

Sample wt/vol: 5(mL) Date Analyzed: 06/23/2015 22:24

Soil Aliquot Vol: Dilution Factor: 250

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 186324 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	110		74-120
1868-53-7	Dibromofluoromethane (Surr)	107		75-121
460-00-4	4-Bromofluorobenzene (Surr)	93		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		63-129

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-3-061715 MSD | Lab Sample ID: 240-52142-3 MSD

Matrix: Water | Lab File ID: UXJ7259.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:42

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 22:46

Soil Aliquot Vol: | Dilution Factor: 250

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-20-6	1,1,1,2-Tetrachloroethane	2180		250	70
71-55-6	1,1,1-Trichloroethane	2290		250	110
79-34-5	1,1,2,2-Tetrachloroethane	2570		250	55
76-13-1	1,1,2-Trichlorotrifluoroethane	2000		250	110
75-34-3	1,1-Dichloroethane	2500		250	75
75-35-4	1,1-Dichloroethene	2150		250	110
563-58-6	1,1-Dichloropropene	2380		250	110
87-61-6	1,2,3-Trichlorobenzene	2990		250	93
96-18-4	1,2,3-Trichloropropane	2730		250	110
526-73-8	1,2,3-Trimethylbenzene	120	U	1300	120
120-82-1	1,2,4-Trichlorobenzene	2820		250	80
95-63-6	1,2,4-Trimethylbenzene	2370		250	100
96-12-8	1,2-Dibromo-3-Chloropropane	3040		500	210
95-50-1	1,2-Dichlorobenzene	2130		250	63
107-06-2	1,2-Dichloroethane	2560		250	58
78-87-5	1,2-Dichloropropane	2450		250	63
541-73-1	1,3-Dichlorobenzene	2090		250	48
142-28-9	1,3-Dichloropropane	2380		250	48
106-46-7	1,4-Dichlorobenzene	2070		250	68
594-20-7	2,2-Dichloropropane	2060		250	65
78-93-3	2-Butanone (MEK)	4450		2500	130
110-75-8	2-Chloroethyl vinyl ether	2050	J	2500	150
95-49-8	2-Chlorotoluene	2520		250	100
591-78-6	2-Hexanone	4690		2500	120
106-43-4	4-Chlorotoluene	2510		250	73
99-87-6	4-Isopropyltoluene	2190		250	110
108-10-1	4-Methyl-2-pentanone (MIBK)	4700		2500	250
67-64-1	Acetone	4410		2500	240
71-43-2	Benzene	2410		250	88
108-86-1	Bromobenzene	2320		250	88
75-25-2	Bromoform	1840		250	140
74-83-9	Bromomethane	2990		250	110
75-15-0	Carbon disulfide	2220		250	95
56-23-5	Carbon tetrachloride	2070		250	110
108-90-7	Chlorobenzene	2180		250	63
124-48-1	Chlorodibromomethane	2340		250	110

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-3-061715 MSD | Lab Sample ID: 240-52142-3 MSD

Matrix: Water | Lab File ID: UXJ7259.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:42

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 22:46

Soil Aliquot Vol: | Dilution Factor: 250

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-00-3	Chloroethane	2990		250	80
67-66-3	Chloroform	2540		250	63
74-87-3	Chloromethane	2380		250	110
156-59-2	cis-1,2-Dichloroethene	2400		250	65
10061-01-5	cis-1,3-Dichloropropene	2560		250	120
74-95-3	Dibromomethane	2490		250	110
74-97-5	Bromochloromethane	2340		250	130
75-71-8	Dichlorodifluoromethane	1690		250	80
75-27-4	Bromodichloromethane	2510		250	73
75-65-0	tert-Butyl alcohol	20200		13000	1200
100-41-4	Ethylbenzene	2170		250	63
87-68-3	Hexachlorobutadiene	2270		250	88
108-20-3	Diisopropyl ether	130	U	2500	130
98-82-8	Isopropylbenzene	1940		250	88
1634-04-4	Methyl tert-butyl ether	2360		250	50
75-09-2	Methylene Chloride	2460		250	83
179601-23-1	m-Xylene & p-Xylene	2060		500	60
91-20-3	Naphthalene	3480		250	110
104-51-8	n-Butylbenzene	2220		250	78
103-65-1	N-Propylbenzene	2590		250	100
95-47-6	o-Xylene	1990		250	63
135-98-8	sec-Butylbenzene	2240		250	120
100-42-5	Styrene	1970		250	110
994-05-8	Tert-amyl methyl ether	75	U	1300	75
637-92-3	Ethyl tert-butyl ether	58	U	1300	58
127-18-4	Tetrachloroethene	1890		250	78
108-88-3	Toluene	2400		250	58
156-60-5	trans-1,2-Dichloroethene	2330		250	75
10061-02-6	trans-1,3-Dichloropropene	2790		250	140
79-01-6	Trichloroethene	8350		250	55
75-69-4	Trichlorofluoromethane	2090		250	120
108-05-4	Vinyl acetate	2990		500	100
75-01-4	Vinyl chloride	2490		250	73
1330-20-7	Xylenes, Total	4050		500	130
98-06-6	tert-Butylbenzene	2310		250	100
106-93-4	1,2-Dibromoethane	2260		250	80

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-52142-1

SDG No.:

Client Sample ID: MPE-3-061715 MSD | Lab Sample ID: 240-52142-3 MSD

Matrix: Water | Lab File ID: UXJ7259.D

Analysis Method: 8260C | Date Collected: 06/17/2015 13:42

Sample wt/vol: 5(mL) | Date Analyzed: 06/23/2015 22:46

Soil Aliquot Vol: | Dilution Factor: 250

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

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

Analysis Batch No.: 186324 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	111		74-120
1868-53-7	Dibromofluoromethane (Surr)	110		75-121
460-00-4	4-Bromofluorobenzene (Surr)	97		66-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		63-129

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

Instrument ID: A3UX11 Start Date: 06/15/2015 10:38

Analysis Batch Number: 185123 End Date: 06/15/2015 16:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-185123/1		06/15/2015 10:38	1	BFB615E.D	DB-624 0.18(mm)
STD8260 240-185123/2 IC		06/15/2015 11:11	1	UXJ6997.D	DB-624 0.18(mm)
STD8260 240-185123/3 IC		06/15/2015 11:34	1	UXJ6998.D	DB-624 0.18(mm)
STD8260 240-185123/4 ICIS		06/15/2015 11:56	1	UXJ6999.D	DB-624 0.18(mm)
STD8260 240-185123/5 IC		06/15/2015 12:19	1	UXJ7000.D	DB-624 0.18(mm)
STD8260 240-185123/6 IC		06/15/2015 12:42	1	UXJ7001.D	DB-624 0.18(mm)
STD8260 240-185123/7 IC		06/15/2015 13:04	1	UXJ7002.D	DB-624 0.18(mm)
ICV 240-185123/14		06/15/2015 13:27	1	UXJ7003.D	DB-624 0.18(mm)
STD6 240-185123/8 IC		06/15/2015 13:50	1	UXJ7004.D	DB-624 0.18(mm)
STD5 240-185123/9 IC		06/15/2015 14:12	1	UXJ7005.D	DB-624 0.18(mm)
STD4 240-185123/10 IC		06/15/2015 14:35	1	UXJ7006.D	DB-624 0.18(mm)
STD3 240-185123/11 IC		06/15/2015 14:57	1	UXJ7007.D	DB-624 0.18(mm)
STD2 240-185123/12 IC		06/15/2015 15:20	1	UXJ7008.D	DB-624 0.18(mm)
STD1 240-185123/13 IC		06/15/2015 15:43	1	UXJ7009.D	DB-624 0.18(mm)
ICV 240-185123/15		06/15/2015 16:05	1	UXJ7010.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-52142-1

SDG No.:

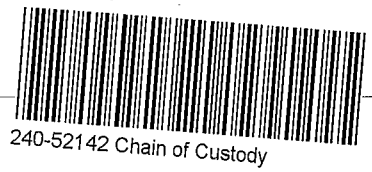
Instrument ID: A3UX11 Start Date: 06/23/2015 11:41

Analysis Batch Number: 186324 End Date: 06/23/2015 22:46

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-186324/1		06/23/2015 11:41	1	BFB623B.D	DB-624 0.18(mm)
CCVIS 240-186324/2		06/23/2015 12:10	1	UXJ7231.D	DB-624 0.18(mm)
CCV 240-186324/3		06/23/2015 12:56	1	UXJ7233.D	DB-624 0.18(mm)
ZZZZZ		06/23/2015 13:19	1		DB-624 0.18(mm)
LCS 240-186324/4		06/23/2015 13:42	1	UXJ7235.D	DB-624 0.18(mm)
MB 240-186324/31		06/23/2015 14:27	1	UXJ7237.D	DB-624 0.18(mm)
240-52142-1	TB-061715	06/23/2015 14:50	1	UXJ7238.D	DB-624 0.18(mm)
240-52142-2	MPE-1-061715	06/23/2015 15:13	1428.57	UXJ7239.D	DB-624 0.18(mm)
240-52142-3	MPE-3-061715	06/23/2015 15:35	250	UXJ7240.D	DB-624 0.18(mm)
240-52142-4	MPE-4-061715	06/23/2015 15:58	833.33	UXJ7241.D	DB-624 0.18(mm)
240-52142-5	WSP-1-061715	06/23/2015 16:21	714.29	UXJ7242.D	DB-624 0.18(mm)
ZZZZZ		06/23/2015 16:44	1		DB-624 0.18(mm)
ZZZZZ		06/23/2015 17:07	1		DB-624 0.18(mm)
ZZZZZ		06/23/2015 17:29	125		DB-624 0.18(mm)
ZZZZZ		06/23/2015 17:52	1		DB-624 0.18(mm)
ZZZZZ		06/23/2015 18:15	1		DB-624 0.18(mm)
ZZZZZ		06/23/2015 18:38	1		DB-624 0.18(mm)
ZZZZZ		06/23/2015 19:00	2.5		DB-624 0.18(mm)
ZZZZZ		06/23/2015 19:23	100		DB-624 0.18(mm)
ZZZZZ		06/23/2015 19:46	200		DB-624 0.18(mm)
ZZZZZ		06/23/2015 20:09	500		DB-624 0.18(mm)
ZZZZZ		06/23/2015 20:31	2000		DB-624 0.18(mm)
ZZZZZ		06/23/2015 20:54	1000		DB-624 0.18(mm)
ZZZZZ		06/23/2015 21:16	1		DB-624 0.18(mm)
ZZZZZ		06/23/2015 21:38	1		DB-624 0.18(mm)
ZZZZZ		06/23/2015 22:01	1		DB-624 0.18(mm)
240-52142-3 MS	MPE-3-061715 MS	06/23/2015 22:24	250	UXJ7258.D	DB-624 0.18(mm)
240-52142-3 MSD	MPE-3-061715 MSD	06/23/2015 22:46	250	UXJ7259.D	DB-624 0.18(mm)

Shipping and Receiving Documents

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

1.6|C2.6 2.6|C3.6

Chain of Custody Record

TestAmerica Laboratory location: North Canton OH

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager: Chris Pike	Site Contact: Stu Cameron	Lab Contact: John McFadden	COC No:
Address: 20251 Century Blvd Ste. 200	Telephone:	Telephone: (703) 342-8389	Telephone:	1 of 1 COCs
City/State/Zip: Germantown MD 20874	Email: Chris.Pike@tetratech.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: (301) 528-3002		TAT if different from below 5day		Walk-in client: ☐
Project Name: MPE	Method of Shipment/Carrier: TA Courier	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab pickup: ☐
Project Number: 112IC04769-31	Shipping/Tracking No:			Lab sampling: ☐
PO#				Job/SDG No.:

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	VOCs	Sample Specific Notes / Special Instructions:
TB-061715	—	—		X						X					N	G	2	
MPE-1-061715	6-17-15	1340		X						X					N	G	3	
MPE-3-061715	"	1342		X						X					N	G	3	
MPE-4-061715	"	1343		X						X					N	G	3	
WSP-1-061715	↓	1350		X						X					N	G	3	

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	6-17-15 / 1530		TestAmerica	6/17/15 / 1530
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TestAmerica	6/17/15 / 1615		TA	6/18/15 9:20
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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TAL-0018 (1008)

TestAmerica Canton Sample Receipt Form/Narrative — Login # : 5442
Canton Facility

Client Tetra Tech — Site Name MSA GW 2015 — Cooler unpacked by: DAS/MFG

Cooler Received on 6/18/15 — Opened on 6/18/15

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time — Storage Location

TestAmerica Cooler # — Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
   - IR GUN# A (CF +1.0 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C
   - ~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C~~
   - ~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C~~
   - IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

   ☒ See Multiple Cooler Form
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 ea (Yes) No
   - -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   - -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No) N/A
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes (No)
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 correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Were sample(s) at the correct pH upon receipt? (Yes) No NA pH Strip Lot# HC432654
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # HC1023640/Z15326 (Yes) No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: DAS/MFG

* trip blanks (2)(VOCs) listed on both of 2 pp COC — 2 vials total rec'd

will log 1 vial per COC

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ 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 the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility

Login # : 67142

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Client	A	1.6	2.6	Ice
↓	↓	2.6	3.6	↓

7/15/2015 SAMPLING EVENT

ANALYTICAL REPORT

Job Number: 240-53231-1

Job Description: MRC Block E MPE

For:
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Pittsburgh, PA 15220-2745

Attention: Chris Pike



Approved for release.
John McFadden
Project Manager I
7/21/2015 11:09 AM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
07/21/2015

cc: Tony Apanavage
Samantha Brenner
Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MRC Block E MPE

Report Number: 240-53231-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 7/16/2015 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6º C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples DSP-6-071515 (240-53231-1) and TB-071515 (240-53231-2) were analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The samples were analyzed on 07/17/2015.

The following sample submitted for volatiles analysis was received with insufficient preservation (pH >2): DSP-6-071515 (240-53231-1). The sample was analyzed within seven days from collection.

The following sample was received preserved with hydrochloric acid: DSP-6-071515 (240-53231-1) and TB-071515 (240-53231-2). The requested target analyte list contains 2-chloroethyl vinyl ether and acrolein, which can degrade in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH

Sample DSP-6-071515 (240-53231-1) was analyzed for pH in accordance with SM 4500 H+ B. The sample was analyzed on 07/16/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Instrument ID: A3UX9 Analysis Batch Number: 182596

Lab Sample ID: STD8260 240-182596/10 I Client Sample ID:

Date Analyzed: 05/27/15 18:51 Lab File ID: UX950159.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.25	Split Peak	laveyt	05/27/15 19:27

Lab Sample ID: STD8260 240-182596/12 I Client Sample ID:

Date Analyzed: 05/27/15 19:39 Lab File ID: UX950161.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.24	Split Peak	laveyt	05/27/15 20:14

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Instrument ID: A3UX9 Analysis Batch Number: 189642

Lab Sample ID: CCVIS 240-189642/3 Client Sample ID:

Date Analyzed: 07/17/15 18:39 Lab File ID: UX951097.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon disulfide	3.25	Split Peak	laveyt	07/17/15 19:41

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-53231-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-53231-1	DSP-6-071515	Water	07/15/2015 0915	07/16/2015 0920
240-53231-2	TB-071515	Water	07/15/2015 0000	07/16/2015 0920

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-53231-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-53231-1	**DSP-6-071515**					
pH		6.49	HF	0.100	SU	4500 H+ B-2000

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-53231-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
pH	TAL CAN	SM 4500 H+ B-2000	

Lab References:

TAL CAN = TestAmerica Canton

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-53231-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
SM 4500 H+ B-2000	Renner, Gabrielle N	GNR

Client: Tetra Tech, Inc. Job Number: 240-53231-1

Client Sample ID: DSP-6-071515

Lab Sample ID: 240-53231-1 Date Sampled: 07/15/2015 0915
Client Matrix: Water Date Received: 07/16/2015 0920

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-189642	Instrument ID:	A3UX9
	N/A	Prep Batch:	N/A	Lab File ID:	UX951103.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/17/2015 2102			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84		78 - 125
4-Bromofluorobenzene (Surr)	100		61 - 120

Client: Tetra Tech, Inc. Job Number: 240-53231-1

Client Sample ID: **TB-071515**

Lab Sample ID: 240-53231-2 Date Sampled: 07/15/2015 0000
Client Matrix: Water Date Received: 07/16/2015 0920

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-189642	Instrument ID:	A3UX9
	N/A	Prep Batch:	N/A	Lab File ID:	UX951104.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	07/17/2015 2126			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		78 - 125
4-Bromofluorobenzene (Surr)	97		61 - 120

General Chemistry

Client Sample ID: **DSP-6-071515**

Lab Sample ID: 240-53231-1 Date Sampled: 07/15/2015 0915
Client Matrix: Water Date Received: 07/16/2015 0920

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
pH	6.49	HF	SU	0.100	0.100	1.0	4500 H+ B-2000

Analysis Batch: 240-189375 Analysis Date: 07/16/2015 1620

Client: Tetra Tech, Inc. Job Number: 240-53231-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec
240-53231-1	DSP-6-071515	84	100
240-53231-2	TB-071515	88	97
MB 240-189642/5		86	102
LCS 240-189642/6		93	105
240-53210-B-1 MS		86	104

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
BFB = 4-Bromofluorobenzene (Surr)	61-120

Client: Tetra Tech, Inc. Job Number: 240-53231-1

Method Blank - Batch: 240-189642

Method: 624
Preparation: N/A

Lab Sample ID:	MB 240-189642/5	Analysis Batch:	240-189642	Instrument ID:	A3UX9
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX951100.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	07/17/2015 1952	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86	78 - 125
4-Bromofluorobenzene (Surr)	102	61 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	105	61 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	104	61 - 120

Client: Tetra Tech, Inc. Job Number: 240-53231-1

Lab Control Sample - Batch: 240-189375

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-189375/2	Analysis Batch:	240-189375	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	07/16/2015 0934	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.15	6.200	101	97 - 103	

Duplicate - Batch: 240-189375

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-53222-A-1 DU	Analysis Batch:	240-189375	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	07/16/2015 1600	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.76	7.790	0.4	20	

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-53231-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Client: Tetra Tech, Inc. Job Number: 240-53231-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-189642					
LCS 240-189642/6	Lab Control Sample	T	Water	624	
MB 240-189642/5	Method Blank	T	Water	624	
240-53210-B-1 MS	Matrix Spike	T	Water	624	
240-53231-1	DSP-6-071515	T	Water	624	
240-53231-2	TB-071515	T	Water	624	

Report Basis
T = Total

General Chemistry					
Analysis Batch:240-189375					
LCS 240-189375/2	Lab Control Sample	T	Water	4500 H+ B-2000	
240-53222-A-1 DU	Duplicate	T	Water	4500 H+ B-2000	
240-53231-1	DSP-6-071515	T	Water	4500 H+ B-2000	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-53231-1

Laboratory Chronicle

Lab ID: 240-53231-1 **Client ID: DSP-6-071515**

Sample Date/Time: 07/15/2015 09:15 Received Date/Time: 07/16/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-53231-B-1		240-189642		07/17/2015 21:02	1	TAL CAN	TJL1
A:4500 H+ B-2000	240-53231-D-1		240-189375		07/16/2015 16:20	1	TAL CAN	GNR

Lab ID: 240-53231-2 **Client ID: TB-071515**

Sample Date/Time: 07/15/2015 00:00 Received Date/Time: 07/16/2015 09:20

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-53231-A-2		240-189642		07/17/2015 21:26	1	TAL CAN	TJL1

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-189642/5		240-189642		07/17/2015 19:52	1	TAL CAN	TJL1

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-189642/6		240-189642		07/17/2015 19:03	1	TAL CAN	TJL1
A:4500 H+ B-2000	LCS 240-189375/2		240-189375		07/16/2015 09:34	1	TAL CAN	GNR

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 07/15/2015 07:00 Received Date/Time: 07/15/2015 13:42

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-53210-B-1 MS		240-189642		07/17/2015 22:35	1	TAL CAN	TJL1

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 07/15/2015 07:30 Received Date/Time: 07/15/2015 17:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-53222-A-1 DU		240-189375		07/16/2015 16:00	1	TAL CAN	GNR

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_00022	08/12/15	02/12/15	MEOH, Lot 85233	50 mL	vm30241_00001	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00001	01/31/18		restek, Lot A093261		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100is_stk_00025	12/19/15	06/19/15	MEOH, Lot 85233	50 mL	vm30241_00003	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00003	04/30/20		restek, Lot A0110589		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00020	10/22/15	04/22/15	MEOH, Lot 85233	100 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00202	05/28/15	05/21/15	MEOH, Lot na	2 mL	vm50ss_stk_00065	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00101	05/31/15	05/26/15	MEOH, Lot na	3 mL	VMACROLSTD_00025	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00025	05/31/15	05/01/15	MEOH, Lot 0000085233	20 mL	VM568720_00006	0.25 mL	Acrolein	250 ug/mL
..VM568720_00006	05/31/15		restek, Lot A0108734		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00108	07/23/15	07/16/15	MEOH, Lot na	3 mL	VMACROLSTD_00027	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00027	07/31/15	07/08/15	MEOH, Lot +161620000085233JB	20 mL	VM568720_00007	0.25 mL	Acrolein	250 ug/mL
..VM568720_00007	07/31/15		restek, Lot A0109948		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00092	07/23/15	07/16/15	MEOH, Lot NA	2 mL	VMFASA_00018	2 mL	Acrolein	250 ug/mL
.VMFASA_00018	07/31/15	05/29/15	MEOH, Lot +161620000085233JB	100 mL	VM568720S_00007	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00007	07/31/15		restek, Lot A0109953		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00103	07/17/15	07/10/15	MEOH, Lot NA	2 mL	VMFASG_00031	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00031	08/03/15	07/03/15	MEOH, Lot 0000085233	50 mL	VM567645S_00017	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15	Restek, Lot A099261			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00107	07/23/15	07/16/15	MEOH, Lot n/a	2 mL	VMRFASP_00021	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
.VMRFASP_00021	07/31/15	05/29/15	MEOH, Lot 0000085233	100 mL	VM567641S_00007	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM569723S_00002	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM569723S_00002	03/31/18		Restek, Lot A0110013		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
VMRGAS_00103	06/02/15	05/26/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00110	07/20/15	07/13/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00127	05/27/15	05/20/15	MEOH, Lot NA	1 mL	VMRPRIM_00011	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							Vinyl acetate	48 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00011	05/31/15	05/06/15	MEOH, Lot +1+161620000085233jb	50 mL	VM567641_00013	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00015	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567646_00016	0.6 mL	Vinyl acetate	48 ug/mL
					VM569723_00001	2 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromobenzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00015	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567646_00016	05/31/15		Restek, Lot A0107309		(Purchased Reagent)		Vinyl acetate	4000 ug/mL
..VM569723_00001	01/31/18		restek, Lot A0108172		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
VMRPRIMW_00139	07/23/15	07/16/15	MEOH, Lot NA	1 mL	VMRPRIM_00012	1 mL	1,1,1-Trichloroethane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00012	08/31/15	05/27/15	MEOH, Lot +161620000085233JB	50 mL	VM567641_00013	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCPH7_00073	11/03/16		Fisher Scientific, Lot 147660		(Purchased Reagent)		pH	7 SU
WCPHLCS_00010	08/31/16		Phenova, Lot 8137-15		(Purchased Reagent)		pH	6.15 SU

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-53231-1
Project/Site: MRC Block E MPE

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Georgia	State Program	4	N/A
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	Kentucky (WW)	State Program	4	98016
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Oregon	NELAP	10	4062
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DCA #	BFB #
DSP-6-071515	240-53231-1	84	100
TB-071515	240-53231-2	88	97
	MB 240-189642/5	86	102
	LCS 240-189642/6	93	105
	240-53210-B-1 MS	86	104

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
BFB = 4-Bromofluorobenzene (Surr)	61-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Lab File ID: UX951100.D Lab Sample ID: MB 240-189642/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX9 Date Analyzed: 07/17/2015 19:52

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 240-189642/6	UX951098.D	07/17/2015 19:03
DSP-6-071515	240-53231-1	UX951103.D	07/17/2015 21:02
TB-071515	240-53231-2	UX951104.D	07/17/2015 21:26
	240-53210-B-1 MS	UX951107.D	07/17/2015 22:35

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Lab File ID: BFB2994.D BFB Injection Date: 05/27/2015

Instrument ID: A3UX9 BFB Injection Time: 15:12

Analysis Batch No.: 182596

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	49.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	88.5	
175	5.0 - 9.0 % of mass 174	7.0	(7.9)1
176	95.0 - 101.0 % of mass 174	85.4	(96.4)1
177	5.0 - 9.0 % of mass 176	5.0	(5.9)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 240-182596/7	UX950156.D	05/27/2015	17:18
	STD8260 240-182596/8	UX950157.D	05/27/2015	18:03
	STD8260 240-182596/9	UX950158.D	05/27/2015	18:27
	STD8260 240-182596/10	UX950159.D	05/27/2015	18:51
	STD8260 240-182596/11	UX950160.D	05/27/2015	19:15
	STD8260 240-182596/12	UX950161.D	05/27/2015	19:39

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Lab File ID: BFB3037.D BFB Injection Date: 07/17/2015

Instrument ID: A3UX9 BFB Injection Time: 18:15

Analysis Batch No.: 189642

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.7	
75	30.0 - 60.0 % of mass 95	45.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.0	(0.0)1
174	50.0 - 120.00 % of mass 95	77.4	
175	5.0 - 9.0 % of mass 174	5.3	(6.8)1
176	95.0 - 101.0 % of mass 174	75.2	(97.1)1
177	5.0 - 9.0 % of mass 176	4.9	(6.5)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 240-189642/3	UX951097.D	07/17/2015	18:39
	LCS 240-189642/6	UX951098.D	07/17/2015	19:03
	CCV 240-189642/4	UX951099.D	07/17/2015	19:27
	MB 240-189642/5	UX951100.D	07/17/2015	19:52
DSP-6-071515	240-53231-1	UX951103.D	07/17/2015	21:02
TB-071515	240-53231-2	UX951104.D	07/17/2015	21:26
	240-53210-B-1 MS	UX951107.D	07/17/2015	22:35

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Sample No.: STD8260 240-182596/10 Date Analyzed: 05/27/2015 18:51

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX950159.D Heated Purge: (Y/N) N

Calibration ID: 28706

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		752816	5.41	597354	8.08	313939	10.32
UPPER LIMIT		1505632	5.91	1194708	8.58	627878	10.82
LOWER LIMIT		376408	4.91	298677	7.58	156970	9.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 240-189642/3		646978	5.40	483421	8.08	247620	10.31

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 624

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Sample No.: CCVIS 240-189642/3 Date Analyzed: 07/17/2015 18:39

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX951097.D Heated Purge: (Y/N) N

Calibration ID: 28706

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		646978	5.40	483421	8.08	247620	10.31
UPPER LIMIT		1293956	5.90	966842	8.58	495240	10.81
LOWER LIMIT		323489	4.90	241711	7.58	123810	9.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-189642/6		699643	5.41	511835	8.08	258276	10.32
CCV 240-189642/4		642550	5.41	497010	8.08	224366	10.32
MB 240-189642/5		665702	5.41	501881	8.08	237195	10.32
240-53231-1	DSP-6-071515	694621	5.40	522502	8.08	249915	10.32
240-53231-2	TB-071515	714514	5.40	548053	8.08	252937	10.31
240-53210-B-1 MS		694686	5.40	524594	8.08	248275	10.31

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-53231-1

SDG No.:

Client Sample ID: DSP-6-071515 | Lab Sample ID: 240-53231-1

Matrix: Water | Lab File ID: UX951103.D

Analysis Method: 624 | Date Collected: 07/15/2015 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2015 21:02

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.: 189642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Client Sample ID: DSP-6-071515 Lab Sample ID: 240-53231-1

Matrix: Water Lab File ID: UX951103.D

Analysis Method: 624 Date Collected: 07/15/2015 09:15

Sample wt/vol: 5(mL) Date Analyzed: 07/17/2015 21:02

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.: 189642 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		78-125
460-00-4	4-Bromofluorobenzene (Surr)	100		61-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-53231-1

SDG No.:

Client Sample ID: TB-071515 | Lab Sample ID: 240-53231-2

Matrix: Water | Lab File ID: UX951104.D

Analysis Method: 624 | Date Collected: 07/15/2015 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2015 21:26

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.: 189642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-53231-1

SDG No.:

Client Sample ID: TB-071515 | Lab Sample ID: 240-53231-2

Matrix: Water | Lab File ID: UX951104.D

Analysis Method: 624 | Date Collected: 07/15/2015 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2015 21:26

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.: 189642 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		78-125
460-00-4	4-Bromofluorobenzene (Surr)	97		61-120

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-53231-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-182596/7	UX950156.D
Level 2	STD8260 240-182596/8	UX950157.D
Level 3	STD8260 240-182596/9	UX950158.D
Level 4	STD8260 240-182596/10	UX950159.D
Level 5	STD8260 240-182596/11	UX950160.D
Level 6	STD8260 240-182596/12	UX950161.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	0.3043 0.3488	0.3485	0.3984	0.2869	0.2914	Ave		0.3297				13.1		35.0			
Chloromethane	0.6050 0.4718	0.4522	0.4897	0.4673	0.4885	Ave		0.4958				11.2		35.0			
Vinyl chloride	0.4680 0.5385	0.4784	0.5226	0.4888	0.5404	Ave		0.5061				6.3		35.0			
Bromomethane	0.3689 0.3539	0.2759	0.3463	0.3323	0.3543	Ave		0.3386				9.7		35.0			
Chloroethane	0.2457 0.3661	0.2875	0.3491	0.3365	0.3662	Ave		0.3252				14.9		35.0			
Dichlorofluoromethane	0.7619 0.7834	0.7326	0.7877	0.7554	0.8098	Ave		0.7718				3.5		35.0			
Trichlorofluoromethane	0.4368 0.5540	0.4506	0.5778	0.4760	0.5245	Ave		0.5033				11.4		35.0			
Ethyl ether	0.2656 0.3032	0.2755	0.3107	0.2962	0.3067	Ave		0.2930				6.2		35.0			
Acrolein	0.0292 0.0354	0.0390	0.0360	0.0366	0.0361	Ave		0.0354				9.2		35.0			
Acetone	0.3647 +++++	0.2865	0.1422	0.1513	0.1390	Lin1	0.2485	0.1379							0.9980		0.9900
1,1-Dichloroethene	0.4832 0.6439	0.5126	0.6638	0.6355	0.6495	Ave		0.5981				13.2		35.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.3675	0.2603	0.3685	0.3592	0.2385	Ave		0.3188				20.0		35.0			
Iodomethane	0.4464 0.7142	0.5609	0.6576	0.6501	0.6783	Ave		0.6179				15.9		35.0			
Carbon disulfide	0.6139 0.7664	0.8106	0.6489	0.6663	0.6474	Ave		0.6922				11.2		35.0			
Methyl acetate	0.2889 0.2356	0.2346	0.2529	0.2369	0.2426	Ave		0.2486				8.4		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-53231-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

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								
Methylene Chloride	+++++ 0.4976	0.6288	0.4826	0.5087	0.4591	Ave		0.5154				12.8		35.0			
2-Methyl-2-propanol	0.0313 0.0324	0.0359	0.0375	0.0327	0.0346	Ave		0.0341				6.9		35.0			
Acrylonitrile	0.1228 0.1274	0.1217	0.1332	0.1262	0.1310	Ave		0.1270				3.5		35.0			
Methyl tert-butyl ether	1.0487 1.1270	1.0300	1.1004	1.0799	1.1504	Ave		1.0894				4.2		35.0			
trans-1,2-Dichloroethene	0.4707 0.4938	0.4187	0.4795	0.4723	0.4891	Ave		0.4707				5.7		35.0			
Hexane	+++++ 0.3038	0.2471	0.3143	0.2973	0.2242	Ave		0.2773				14.2		35.0			
1,1-Dichloroethane	0.5239 0.6025	0.5876	0.6075	0.5822	0.6002	Ave		0.5840				5.3		35.0			
Vinyl acetate	0.4894 0.4349	0.4366	0.4160	0.4058	0.4208	Ave		0.4339				6.8		35.0			
2-Butanone (MEK)	0.1483 0.1333	0.1658	0.1561	0.1529	0.1518	Ave		0.1514				7.0		35.0			
cis-1,2-Dichloroethene	0.5193 0.4891	0.4978	0.4734	0.4719	0.4936	Ave		0.4909				3.6		35.0			
2,2-Dichloropropane	0.2905 0.2708	0.2642	0.2791	0.2691	0.2771	Ave		0.2751				3.4		35.0			
Chlorobromomethane	0.2497 0.2605	0.2460	0.2772	0.2604	0.2705	Ave		0.2607				4.6		35.0			
Chloroform	0.5038 0.5955	0.5801	0.5891	0.5746	0.6047	Ave		0.5746				6.3		35.0			
1,1,1-Trichloroethane	0.3920 0.4965	0.4144	0.4412	0.4343	0.4542	Ave		0.4388				8.1		35.0			
Cyclohexane	0.2752 +++++	0.2944	0.3175	0.2978	0.2106	Ave		0.2791				14.7		35.0			
1,1-Dichloropropene	0.4149 0.4467	0.3842	0.4387	0.4200	0.4411	Ave		0.4243				5.5		35.0			
Carbon tetrachloride	0.3095 0.4207	0.3442	0.3713	0.3635	0.3720	Ave		0.3635				10.1		35.0			
Isobutyl alcohol	0.0111 0.0100	0.0112	0.0117	0.0111	0.0107	Ave		0.0110				5.2		35.0			
Benzene	1.5862 1.4741	1.3834	1.5278	1.4724	1.5121	Ave		1.4927				4.6		35.0			
1,2-Dichloroethane	0.4691 0.4679	0.4503	0.4724	0.4551	0.4750	Ave		0.4650				2.1		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-53231-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

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								
Trichloroethene	0.4090 0.4129	0.3669	0.4192	0.4074	0.4148	Ave		0.4050				4.7		35.0			
Methylcyclohexane	0.3372 0.4216	0.3336	0.4046	0.3807	0.3013	Ave		0.3632				12.8		35.0			
1,2-Dichloropropane	0.3142 0.3356	0.2788	0.3252	0.3269	0.3344	Ave		0.3192				6.7		35.0			
Dibromomethane	0.2692 0.2632	0.2256	0.2780	0.2733	0.2735	Ave		0.2638				7.3		35.0			
Dichlorobromomethane	0.4018 0.4734	0.3879	0.4656	0.4552	0.4760	Ave		0.4433				8.7		35.0			
2-Chloroethyl vinyl ether	0.2090 0.2279	0.2068	0.2238	0.2134	0.2265	Ave		0.2179				4.3		35.0			
cis-1,3-Dichloropropene	0.5116 0.5933	0.4921	0.5635	0.5538	0.5944	Ave		0.5514				7.6		35.0			
4-Methyl-2-pentanone (MIBK)	0.2774 0.2733	0.2705	0.2807	0.2787	0.2869	Ave		0.2779				2.1		35.0			
Toluene	1.8646 1.9458	1.8182	2.0465	1.9827	2.0360	Ave		1.9490				4.7		35.0			
trans-1,3-Dichloropropene	0.5524 0.6454	0.5833	0.6128	0.6167	0.6402	Ave		0.6085				5.8		35.0			
Ethyl methacrylate	0.4445 0.5629	0.4562	0.5280	0.5409	0.5594	Ave		0.5153				10.1		35.0			
1,1,2-Trichloroethane	0.3569 0.4142	0.3486	0.4138	0.4102	0.4216	Ave		0.3942				8.2		35.0			
1,3-Dichloropropane	0.7629 0.7435	0.7213	0.7479	0.7541	0.7610	Ave		0.7485				2.0		35.0			
Tetrachloroethene	0.4296 0.4715	0.4101	0.4669	0.4645	0.4612	Ave		0.4507				5.5		35.0			
2-Hexanone	0.2843 0.2455	0.2680	0.2936	0.3130	0.3041	Ave		0.2848				8.7		35.0			
Chlorodibromomethane	0.3125 0.4574	0.4175	0.4220	0.4417	0.4532	Ave		0.4174				12.9		35.0			
Ethylene Dibromide	0.4093 0.4225	0.4032	0.4115	0.4189	0.4268	Ave		0.4154				2.1		35.0			
Chlorobenzene	1.3533 1.3457	1.3380	1.3331	1.3565	1.3680	Ave		1.3491				1.0		35.0			
1,1,1,2-Tetrachloroethane	0.3688 0.4714	0.3846	0.4476	0.4494	0.4669	Ave		0.4314				10.1		35.0			
Ethylbenzene	0.6192 0.7039	0.5720	0.6696	0.6843	0.6981	Ave		0.6578				7.9		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-53231-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

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	0.7782 0.8758	0.7304	0.8251	0.8384	0.8683	Ave		0.8194				6.8		35.0			
o-Xylene	0.7662 0.8801	0.7311	0.8163	0.8519	0.8693	Ave		0.8192				7.3		35.0			
Styrene	1.2706 1.5526	1.1626	1.4481	1.4842	1.5488	Ave		1.4111				11.3		35.0			
Bromoform	+++++ 0.3194	0.2386	0.2960	0.2878	0.3152	Ave		0.2914				11.1		35.0			
Isopropylbenzene	1.7887 1.9451	1.5805	1.8774	1.9143	1.9743	Ave		1.8467				7.9		35.0			
1,1,2,2-Tetrachloroethane	1.0258 1.0088	0.9985	1.0693	1.0163	1.0439	Ave		1.0271				2.5		35.0			
Bromobenzene	1.0127 1.1261	1.0380	1.1670	1.1385	1.1698	Ave		1.1087				6.1		35.0			
1,2,3-Trichloropropane	0.3616 0.3724	0.3851	0.3892	0.3872	0.3932	Ave		0.3814				3.1		35.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2986	0.3032	0.2792	0.2732	0.3150	Ave		0.2938				5.9		35.0			
N-Propylbenzene	0.9454 1.0464	0.8895	1.0419	1.0145	1.0534	Ave		0.9985				6.7		35.0			
2-Chlorotoluene	0.7926 0.9216	0.8429	0.9218	0.9298	0.9612	Ave		0.8950				7.1		35.0			
1,3,5-Trimethylbenzene	2.6913 3.0574	2.6102	3.0410	3.0069	3.1894	Ave		2.9327				7.8		35.0			
4-Chlorotoluene	0.8348 1.0087	0.9871	1.0408	1.0072	1.0398	Ave		0.9864				7.8		35.0			
tert-Butylbenzene	2.8899 3.0267	2.4234	2.9924	2.9989	3.1191	Ave		2.9084				8.5		35.0			
1,2,4-Trimethylbenzene	2.7956 3.2303	2.7506	3.1744	3.2140	3.3740	Ave		3.0898				8.2		35.0			
sec-Butylbenzene	0.7772 0.8316	0.6224	0.7834	0.8123	0.8202	Ave		0.7745				10.0		35.0			
1,3-Dichlorobenzene	1.8533 1.9792	1.8996	2.0145	2.0160	2.0656	Ave		1.9714				4.0		35.0			
4-Isopropyltoluene	3.0550 3.2807	2.8611	3.2622	3.2842	3.4140	Ave		3.1929				6.2		35.0			
1,4-Dichlorobenzene	2.2201 2.0527	2.2427	2.1005	2.0978	2.1392	Ave		2.1422				3.5		35.0			
n-Butylbenzene	2.9081 2.6693	2.4058	2.5935	2.5778	2.7016	Ave		2.6427				6.3		35.0			

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 EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-53231-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

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	1.9982 1.9591	1.9891	2.0107	1.9928	2.0367	Ave		1.9978				1.3		35.0			
1,2-Dibromo-3-Chloropropane	0.1971 0.2452	0.1931	0.2406	0.2358	0.2454	Ave		0.2262				10.8		35.0			
1,2,4-Trichlorobenzene	1.5237 1.2925	1.4096	1.2672	1.2422	1.3083	Ave		1.3406				7.9		35.0			
Hexachlorobutadiene	+++++ 0.5650	0.6726	0.5506	0.5859	0.5584	Ave		0.5865				8.5		35.0			
Naphthalene	3.4384 3.3932	3.1533	3.3246	3.3953	3.5655	Ave		3.3784				4.0		35.0			
1,2,3-Trichlorobenzene	1.2483 1.1866	1.3023	1.1804	1.1573	1.2169	Ave		1.2153				4.4		35.0			
1,2-Dichloroethane-d4 (Surr)	0.3138 0.3571	0.3735	0.3644	0.3780	0.3620	Ave		0.3581				6.4		35.0			
Toluene-d8 (Surr)	1.5210 1.5950	1.4774	1.6291	1.6325	1.6666	Ave		1.5869				4.6		35.0			
4-Bromofluorobenzene (Surr)	0.5813 0.6041	0.5619	0.5736	0.5866	0.6016	Ave		0.5848				2.8		35.0			

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 RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-53231-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-182596/7	UX950156.D
Level 2	STD8260 240-182596/8	UX950157.D
Level 3	STD8260 240-182596/9	UX950158.D
Level 4	STD8260 240-182596/10	UX950159.D
Level 5	STD8260 240-182596/11	UX950160.D
Level 6	STD8260 240-182596/12	UX950161.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	5527 1085628	12975	148626	216016	441109	0.500 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	10987 1468483	16837	182699	351824	739397	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	8500 1675995	17812	194976	368004	817986	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	6700 1101469	10271	129193	250169	536279	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	4462 1139538	10704	130219	253314	554287	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	13837 2438263	27278	293876	568702	1225775	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	7932 1724186	16778	215567	358374	793939	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl ether	FB	Ave	4824 943540	10258	115897	222996	464288	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	2652 550304	7255	67165	137753	272994	2.50 400	5.00	50.0	100	200
Acetone	FB	Lin1	13246 +++++	21338	106128	227848	420902	1.00 +++++	2.00	20.0	40.0	80.0
1,1-Dichloroethene	FB	Ave	8776 2003868	19086	247635	478378	983174	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 1143868	9693	137461	270418	361081	+++++ 80.0	1.00	10.0	20.0	40.0
Iodomethane	FB	Ave	8107 2222739	20885	245320	489404	1026788	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	11148 2385356	30179	242066	501590	979963	0.500 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	26235 3666266	43681	471649	891820	1836257	2.50 400	5.00	50.0	100	200
Methylene Chloride	FB	Ave	+++++ 1548504	23412	180045	382980	694899	+++++ 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-53231-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methyl-2-propanol	FB	Ave	5682 1009647	13359	139908	246142	523390	5.00 800	10.0	100	200	400
Acrylonitrile	FB	Ave	22309 3963457	45294	496841	950406	1983169	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	19045 3507420	38351	410514	813003	1741427	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	8548 1536721	15589	178865	355530	740290	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	+++++ 945512	9200	117240	223815	339340	+++++ 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	9514 1875043	21879	226616	438281	908578	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	8533 1299408	15604	148989	293278	611488	0.480 76.8	0.960	9.60	19.2	38.4
2-Butanone (MEK)	FB	Ave	5387 830006	12348	116471	230224	459614	1.00 160	2.00	20.0	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	9430 1522340	18533	176610	355278	747186	0.500 80.0	1.00	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	5275 842751	9835	104133	202579	419399	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	4535 810688	9158	103415	196048	409509	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	9150 1853257	21598	219762	432560	915359	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	7119 1545371	15430	164597	326945	687472	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	4997 +++++	10963	118458	224197	318801	0.500 +++++	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	7534 1390277	14305	163646	316189	667731	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5621 1309271	12817	138534	273613	563059	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	5035 774942	10394	108692	209711	405700	12.5 2000	25.0	250	500	1000
Benzene	FB	Ave	28807 4587762	51507	569943	1108439	2288792	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	8519 1456311	16765	176233	342616	719061	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	7428 1285189	13659	156377	306705	627814	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	6124 1312138	12422	150941	286593	456068	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-53231-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	5706 1044311	10379	121316	246087	506158	0.500 80.0	1.00	10.0	20.0	40.0
Dibromomethane	FB	Ave	4889 819139	8401	103724	205749	413934	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	7296 1473349	14444	173707	342697	720477	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	7590 1418726	15397	167011	321231	685855	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	9290 1846517	18324	210225	416911	899671	0.500 80.0	1.00	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	10076 1701413	20146	209403	419577	868534	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	27194 4948814	54803	618072	1184395	2506939	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	8057 1641496	17580	185085	368402	788291	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl methacrylate	CBZ	Ave	6483 1431749	13749	159452	323125	688758	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	5206 1053454	10507	124974	245025	519075	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	11126 1890945	21742	225890	450449	937030	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	6266 1199314	12362	141006	277494	567835	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	8292 1248992	16153	177371	373891	748959	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	4558 1163251	12584	127459	263840	557989	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	5970 1074531	12153	124288	250222	525461	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	19738 3422600	40329	402602	810336	1684428	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	5379 1198816	11591	135178	268474	574896	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	9031 1790193	17240	202220	408785	859556	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	11350 2227599	22015	249205	500798	1069178	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	11175 2238335	22037	246531	508890	1070386	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	18531 3948733	35041	437353	886608	1907007	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-53231-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	+++++ 812465	7192	89399	171946	388140	+++++ 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	26087 4946984	47638	567013	1143492	2431016	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	7685 1400430	15112	166715	319051	670117	0.500 80.0	1.00	10.0	20.0	40.0
Bromobenzene	DCB	Ave	7587 1563197	15710	181959	357425	750954	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichloropropane	DCB	Ave	2709 517014	5828	60676	121548	252415	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 414460	4588	43539	85779	202204	+++++ 80.0	1.00	10.0	20.0	40.0
N-Propylbenzene	DCB	Ave	7083 1452515	13462	162456	318502	676240	0.500 80.0	1.00	10.0	20.0	40.0
2-Chlorotoluene	DCB	Ave	5938 1279369	12757	143726	291910	617038	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	20163 4244128	39504	474144	943990	2047373	0.500 80.0	1.00	10.0	20.0	40.0
4-Chlorotoluene	DCB	Ave	6254 1400176	14939	162280	316186	667454	0.500 80.0	1.00	10.0	20.0	40.0
tert-Butylbenzene	DCB	Ave	21651 4201551	36677	466572	941460	2002232	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	20944 4484195	41629	494947	1009015	2165868	0.500 80.0	1.00	10.0	20.0	40.0
sec-Butylbenzene	DCB	Ave	5823 1154430	9420	122144	255024	526512	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	13885 2747439	28749	314086	632905	1325966	0.500 80.0	1.00	10.0	20.0	40.0
4-Isopropyltoluene	DCB	Ave	22888 4554157	43300	508626	1031046	2191562	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dichlorobenzene	DCB	Ave	16633 2849455	33942	327500	658580	1373251	0.500 80.0	1.00	10.0	20.0	40.0
n-Butylbenzene	DCB	Ave	21787 3705495	36410	404363	809269	1734216	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	14970 2719546	30103	313496	625624	1307425	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	1477 340445	2922	37511	74020	157554	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	11415 1794142	21333	197572	389965	839848	0.500 80.0	1.00	10.0	20.0	40.0
Hexachlorobutadiene	DCB	Ave	+++++ 784344	10179	85843	183951	358478	+++++ 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-53231-1 Analy Batch No.: 182596

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/27/2015 17:18 Calibration End Date: 05/27/2015 19:39 Calibration ID: 28706

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Naphthalene	DCB	Ave	25760 4710274	47723	518362	1065915	2288826	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCB	Ave	9352 1647184	19710	184045	363323	781194	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	5698 1111416	13906	135925	284602	548026	0.500 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	22183 4056592	44530	492018	975210	2052061	0.500 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	8478 1536446	16935	173220	350397	740733	0.500 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Lab Sample ID: CCVIS 240-189642/3 Calibration Date: 07/17/2015 18:39

Instrument ID: A3UX9 Calib Start Date: 05/27/2015 17:18

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/27/2015 19:39

Lab File ID: UX951097.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	0.3297	0.4548		0.0276	0.0200	37.9	
Chloromethane	Ave	0.4958	0.5789		0.0234	0.0200	16.8	99.0
Vinyl chloride	Ave	0.5061	0.6331		0.0250	0.0200	25.1	96.0
Bromomethane	Ave	0.3386	0.3491		0.0206	0.0200	3.1	86.0
Chloroethane	Ave	0.3252	0.3942		0.0242	0.0200	21.2	62.0
Dichlorofluoromethane	Ave	0.7718	0.8449		0.0219	0.0200	9.5	
Trichlorofluoromethane	Ave	0.5033	0.5899		0.0234	0.0200	17.2	52.0
Ethyl ether	Ave	0.2930	0.3238		0.0221	0.0200	10.5	
Acrolein	Ave	0.0354	0.0350		0.0990	0.100	-1.0	
Acetone	Lin1	0.2168	0.1040		0.0284	0.0400	-29.1	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3188	0.3462		0.0217	0.0200	8.6	
1,1-Dichloroethene	Ave	0.5981	0.6670		0.0223	0.0200	11.5	49.0
Iodomethane	Ave	0.6179	0.6016		0.0195	0.0200	-2.6	
Carbon disulfide	Ave	0.6922	0.8287		0.0239	0.0200	19.7	
Methyl acetate	Ave	0.2486	0.2842		0.114	0.100	14.3	
Methylene Chloride	Ave	0.5154	0.5385		0.0209	0.0200	4.5	39.0
2-Methyl-2-propanol	Ave	0.0341	0.0377		0.221	0.200	10.7	
Acrylonitrile	Ave	0.1270	0.1565		0.246	0.200	23.2	
Methyl tert-butyl ether	Ave	1.089	1.176		0.0216	0.0200	7.9	
trans-1,2-Dichloroethene	Ave	0.4707	0.4943		0.0210	0.0200	5.0	30.0
Hexane	Ave	0.2773	0.3605		0.0260	0.0200	30.0	
1,1-Dichloroethane	Ave	0.5840	0.6355		0.0218	0.0200	8.8	27.0
Vinyl acetate	Ave	0.4339	0.5692		0.0262	0.0200	31.2	
2-Butanone (MEK)	Ave	0.1514	0.1557		0.0411	0.0400	2.9	
cis-1,2-Dichloroethene	Ave	0.4909	0.5192		0.0212	0.0200	5.8	
2,2-Dichloropropane	Ave	0.2751	0.2760		0.0201	0.0200	0.3	
Chlorobromomethane	Ave	0.2607	0.3459		0.0265	0.0200	32.7	
Chloroform	Ave	0.5746	0.5910		0.0206	0.0200	2.8	33.0
1,1,1-Trichloroethane	Ave	0.4388	0.4492		0.0205	0.0200	2.4	25.0
Cyclohexane	Ave	0.2791	0.4238		0.0304	0.0200	51.8	
1,1-Dichloropropene	Ave	0.4243	0.4516		0.0213	0.0200	6.4	
Carbon tetrachloride	Ave	0.3635	0.3912		0.0215	0.0200	7.6	27.0
Isobutyl alcohol	Ave	0.0110	0.0132		0.600	0.500	20.0	
Benzene	Ave	1.493	1.615		0.0216	0.0200	8.2	36.0
1,2-Dichloroethane	Ave	0.4650	0.4406		0.0190	0.0200	-5.2	32.0
Trichloroethene	Ave	0.4050	0.3764		0.0186	0.0200	-7.1	33.0
1,2-Dichloropropane	Ave	0.3192	0.3774		0.0236	0.0200	18.2	66.0
Methylcyclohexane	Ave	0.3632	0.4510		0.0248	0.0200	24.2	
Dibromomethane	Ave	0.2638	0.2410		0.0183	0.0200	-8.6	
Dichlorobromomethane	Ave	0.4433	0.4887		0.0220	0.0200	10.2	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Lab Sample ID: CCVIS 240-189642/3 Calibration Date: 07/17/2015 18:39

Instrument ID: A3UX9 Calib Start Date: 05/27/2015 17:18

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/27/2015 19:39

Lab File ID: UX951097.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	0.2179	0.2680		0.0492	0.0400	23.0	99.0
cis-1,3-Dichloropropene	Ave	0.5514	0.6437		0.0233	0.0200	16.7	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2779	0.3460		0.0498	0.0400	24.5	
Toluene	Ave	1.949	2.216		0.0227	0.0200	13.7	26.0
trans-1,3-Dichloropropene	Ave	0.6085	0.7359		0.0242	0.0200	20.9	50.0
Ethyl methacrylate	Ave	0.5153	0.6855		0.0266	0.0200	33.0	
1,1,2-Trichloroethane	Ave	0.3942	0.4524		0.0229	0.0200	14.7	29.0
1,3-Dichloropropane	Ave	0.7485	0.8429		0.0225	0.0200	12.6	
Tetrachloroethene	Ave	0.4507	0.4537		0.0201	0.0200	0.7	26.0
2-Hexanone	Ave	0.2848	0.3174		0.0446	0.0400	11.5	
Chlorodibromomethane	Ave	0.4174	0.4786		0.0229	0.0200	14.7	33.0
Ethylene Dibromide	Ave	0.4154	0.4585		0.0221	0.0200	10.4	
Chlorobenzene	Ave	1.349	1.427		0.0212	0.0200	5.8	34.0
1,1,1,2-Tetrachloroethane	Ave	0.4314	0.4829		0.0224	0.0200	11.9	
Ethylbenzene	Ave	0.6578	0.7278		0.0221	0.0200	10.6	41.0
m-Xylene & p-Xylene	Ave	0.8194	0.9019		0.0220	0.0200	10.1	
o-Xylene	Ave	0.8192	0.9073		0.0222	0.0200	10.8	
Styrene	Ave	1.411	1.668		0.0236	0.0200	18.2	
Bromoform	Ave	0.2914	0.3392		0.0233	0.0200	16.4	29.0
Isopropylbenzene	Ave	1.847	2.069		0.0224	0.0200	12.1	
1,1,2,2-Tetrachloroethane	Ave	1.027	1.291		0.0251	0.0200	25.7	39.0
Bromobenzene	Ave	1.109	1.187		0.0214	0.0200	7.1	
1,2,3-Trichloropropane	Ave	0.3814	0.4180		0.0219	0.0200	9.6	
trans-1,4-Dichloro-2-butene	Ave	0.2938	0.3863		0.0263	0.0200	31.5	
N-Propylbenzene	Ave	0.999	1.105		0.0221	0.0200	10.7	
2-Chlorotoluene	Ave	0.8950	0.9922		0.0222	0.0200	10.9	
1,3,5-Trimethylbenzene	Ave	2.933	3.387		0.0231	0.0200	15.5	
4-Chlorotoluene	Ave	0.9864	1.070		0.0217	0.0200	8.5	
tert-Butylbenzene	Ave	2.908	2.985		0.0205	0.0200	2.6	
1,2,4-Trimethylbenzene	Ave	3.090	3.649		0.0236	0.0200	18.1	
sec-Butylbenzene	Ave	0.7745	0.8466		0.0219	0.0200	9.3	
1,3-Dichlorobenzene	Ave	1.971	2.152		0.0218	0.0200	9.1	27.0
4-Isopropyltoluene	Ave	3.193	3.647		0.0228	0.0200	14.2	
1,4-Dichlorobenzene	Ave	2.142	2.180		0.0204	0.0200	1.8	37.0
n-Butylbenzene	Ave	2.643	3.165		0.0240	0.0200	19.8	
1,2-Dichlorobenzene	Ave	1.998	2.145		0.0215	0.0200	7.3	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.2262	0.2910		0.0257	0.0200	28.6	
1,2,4-Trichlorobenzene	Ave	1.341	1.344		0.0200	0.0200	0.2	
Hexachlorobutadiene	Ave	0.5865	0.5797		0.0198	0.0200	-1.2	
Naphthalene	Ave	3.378	4.060		0.0240	0.0200	20.2	
1,2,3-Trichlorobenzene	Ave	1.215	1.243		0.0204	0.0200	2.2	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Lab Sample ID: CCVIS 240-189642/3 Calibration Date: 07/17/2015 18:39

Instrument ID: A3UX9 Calib Start Date: 05/27/2015 17:18

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 05/27/2015 19:39

Lab File ID: UX951097.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-Dichloroethane-d4 (Surr)	Ave	0.3581	0.3228		0.0139	0.0154	-9.9	20.0
Toluene-d8 (Surr)	Ave	1.587	1.696		0.0165	0.0154	6.9	
4-Bromofluorobenzene (Surr)	Ave	0.5848	0.6266		0.0165	0.0154	7.1	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-53231-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-189642/5

Matrix: Water | Lab File ID: UX951100.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2015 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.: 189642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-189642/5

Matrix: Water Lab File ID: UX951100.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/17/2015 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.: 189642 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		78-125
460-00-4	4-Bromofluorobenzene (Surr)	102		61-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-53231-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-189642/6

Matrix: Water | Lab File ID: UX951098.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2015 19:03

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.: 189642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.7		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	26.1		1.0	0.22
79-00-5	1,1,2-Trichloroethane	23.6		1.0	0.24
75-34-3	1,1-Dichloroethane	22.9		1.0	0.30
75-35-4	1,1-Dichloroethene	21.3		1.0	0.45
95-50-1	1,2-Dichlorobenzene	21.6		1.0	0.25
107-06-2	1,2-Dichloroethane	19.5		1.0	0.23
78-87-5	1,2-Dichloropropane	23.9		1.0	0.25
541-73-1	1,3-Dichlorobenzene	22.2		1.0	0.19
106-46-7	1,4-Dichlorobenzene	20.9		1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	26.1		2.0	0.59
107-02-8	Acrolein	143		20	4.5
107-13-1	Acrylonitrile	237		20	6.3
71-43-2	Benzene	21.8		1.0	0.35
75-25-2	Bromoform	23.8		1.0	0.56
74-83-9	Bromomethane	18.1		2.0	0.44
56-23-5	Carbon tetrachloride	21.1		1.0	0.43
108-90-7	Chlorobenzene	21.7		1.0	0.25
124-48-1	Chlorodibromomethane	24.0		1.0	0.43
75-00-3	Chloroethane	22.1		2.0	0.32
67-66-3	Chloroform	20.7		1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	24.2		1.0	0.46
75-27-4	Dichlorobromomethane	21.8		1.0	0.29
100-41-4	Ethylbenzene	23.1		1.0	0.25
75-09-2	Methylene Chloride	19.4		2.0	0.33
127-18-4	Tetrachloroethene	20.5		1.0	0.31
108-88-3	Toluene	23.4		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	21.5		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	26.8		1.0	0.56
79-01-6	Trichloroethene	19.2		1.0	0.22
75-69-4	Trichlorofluoromethane	20.9		2.0	0.49
75-01-4	Vinyl chloride	21.0		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-53231-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-189642/6

Matrix: Water | Lab File ID: UX951098.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/17/2015 19:03

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.: 189642 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		78-125
460-00-4	4-Bromofluorobenzene (Surr)	105		61-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-53231-1

SDG No.:

Client Sample ID: | Lab Sample ID: 240-53210-B-1 MS

Matrix: Water | Lab File ID: UX951107.D

Analysis Method: 624 | Date Collected: 07/15/2015 07:00

Sample wt/vol: 1(mL) | Date Analyzed: 07/17/2015 22:35

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.: 189642 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	96.5		5.0	2.2
95-50-1	1,2-Dichlorobenzene	106		5.0	1.3
541-73-1	1,3-Dichlorobenzene	104		5.0	0.95
106-46-7	1,4-Dichlorobenzene	101		5.0	1.4
56-23-5	Carbon tetrachloride	94.0		5.0	2.2
108-90-7	Chlorobenzene	98.6		5.0	1.3
67-66-3	Chloroform	102		5.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		78-125
460-00-4	4-Bromofluorobenzene (Surr)	104		61-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Instrument ID: A3UX9 Start Date: 05/27/2015 15:12

Analysis Batch Number: 182596 End Date: 05/27/2015 22:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-182596/1		05/27/2015 15:12	1	BFB2994.D	DB-624 0.18(mm)
STD8260 240-182596/7 IC		05/27/2015 17:18	1	UX950156.D	DB-624 0.18(mm)
STD8260 240-182596/8 IC		05/27/2015 18:03	1	UX950157.D	DB-624 0.18(mm)
STD8260 240-182596/9 IC		05/27/2015 18:27	1	UX950158.D	DB-624 0.18(mm)
STD8260 240-182596/10 ICIS		05/27/2015 18:51	1	UX950159.D	DB-624 0.18(mm)
STD8260 240-182596/11 IC		05/27/2015 19:15	1	UX950160.D	DB-624 0.18(mm)
STD8260 240-182596/12 IC		05/27/2015 19:39	1	UX950161.D	DB-624 0.18(mm)
ZZZZZ		05/27/2015 22:00	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Instrument ID: A3UX9 Start Date: 07/17/2015 18:15

Analysis Batch Number: 189642 End Date: 07/17/2015 22:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-189642/1		07/17/2015 18:15	1	BFB3037.D	DB-624 0.18(mm)
CCVIS 240-189642/3		07/17/2015 18:39	1	UX951097.D	DB-624 0.18(mm)
LCS 240-189642/6		07/17/2015 19:03	1	UX951098.D	DB-624 0.18(mm)
CCV 240-189642/4		07/17/2015 19:27	1	UX951099.D	DB-624 0.18(mm)
MB 240-189642/5		07/17/2015 19:52	1	UX951100.D	DB-624 0.18(mm)
ZZZZZ		07/17/2015 20:16	1		DB-624 0.18(mm)
ZZZZZ		07/17/2015 20:40	1		DB-624 0.18(mm)
240-53231-1	DSP-6-071515	07/17/2015 21:02	1	UX951103.D	DB-624 0.18(mm)
240-53231-2	TB-071515	07/17/2015 21:26	1	UX951104.D	DB-624 0.18(mm)
ZZZZZ		07/17/2015 21:49	1		DB-624 0.18(mm)
ZZZZZ		07/17/2015 22:11	1		DB-624 0.18(mm)
240-53210-B-1 MS		07/17/2015 22:35	1	UX951107.D	DB-624 0.18(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-53231-1

SDG No.:

Project: MRC Block E MPE

Client Sample ID	Lab Sample ID
DSP-6-071515	240-53231-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DSP-6-071515 Lab Sample ID: 240-53231-1

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG ID.:

Matrix: Water Date Sampled: 07/15/2015 09:15

Reporting Basis: WET Date Received: 07/16/2015 09:20

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	pH	6.49	0.100	0.100	SU		HF	1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Analyst: GNR Batch Start Date: 07/16/2015

Reporting Units: SU Analytical Batch No.: 189375

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	09:13	pH	7.040	7.00	101	99-101		WCPH7_00073
13	CCV	13:17	pH	7.030	7.00	100	99-101		WCPH7_00073
19	CCV	15:19	pH	6.990	7.00	100	99-101		WCPH7_00073
24	CCV	17:01	pH	7.030	7.00	100	99-101		WCPH7_00073

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

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 189375 Date: 07/16/2015 16:00								
4500 H+ B-2000		240-53222-A-1	pH	7.76	SU			
4500 H+ B-2000		240-53222-A-1 DU	pH	7.790	SU	0.4	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 189375	Date: 07/16/2015 09:34										
						LCS Source: WCPHLCS_00010					
4500 H+ B-2000	LCS 240-189375/2	pH	6.200		SU	6.15	101	97-103			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-53231-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-53231-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 07/16/2015 09:13 End Date: 07/16/2015 17:21

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-189375/1	1		09:13	X																			
LCS 240-189375/2	1	T	09:34	X																			
CCV 240-189375/13	1		13:17	X																			
CCV 240-189375/19	1		15:19	X																			
240-53222-A-1 DU	1	T	16:00	X																			
240-53231-1	1	T	16:20	X																			
CCV 240-189375/24	1		17:01	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Batch Number: 189375 Batch Start Date: 07/16/15 09:13 Batch Analyst: Renner, Gabrielle N

Batch Method: 4500 H+ B-2000 Batch End Date: 07/16/15 17:42

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-189375/1		4500 H+ B-2000		10 mL	7.04 SU	22.6 Celsius			pH = Read 1
LCS 240-189375/2		4500 H+ B-2000		10 mL	6.20 SU	22.7 Celsius			pH = Read 1
CCV 240-189375/13		4500 H+ B-2000		10 mL	7.03 SU	20.9 Celsius			pH = Read 1
CCV 240-189375/19		4500 H+ B-2000		10 mL	6.99 SU	21.1 Celsius			pH = Read 1
240-53222-A-1 DU		4500 H+ B-2000	T	10 mL	7.78 SU	21.4 Celsius	7.79 SU	21.5 Celsius	Read 2 Pass
240-53231-D-1	DSP-6-071515	4500 H+ B-2000	T	10 mL	6.52 SU	20.8 Celsius	6.49 SU	20.7 Celsius	Read 2 Pass
CCV 240-189375/24		4500 H+ B-2000		10 mL	7.03 SU	19.8 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00073	WCPHLCS 00010				
CCV 240-189375/1		4500 H+ B-2000		10 mL					
LCS 240-189375/2		4500 H+ B-2000			10 mL				
CCV 240-189375/13		4500 H+ B-2000		10 mL					
CCV 240-189375/19		4500 H+ B-2000		10 mL					
240-53222-A-1 DU		4500 H+ B-2000	T						
240-53231-D-1	DSP-6-071515	4500 H+ B-2000	T						
CCV 240-189375/24		4500 H+ B-2000		10 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-53231-1

SDG No.:

Batch Number: 189375 Batch Start Date: 07/16/15 09:13 Batch Analyst: Renner, Gabrielle N

Batch Method: 4500 H+ B-2000 Batch End Date: 07/16/15 17:42

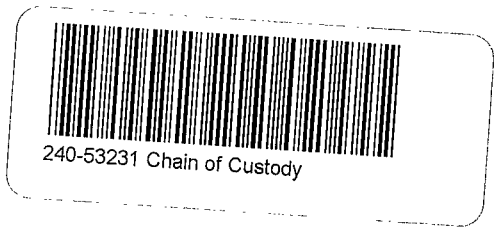
Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1838816
pH Buffer 2 ID	4-1951693
pH Buffer 3 ID	7-1896764
pH Buffer 4 ID	10-1906227
pH Buffer 5 ID	12-1595632
Calibration Date and Time	7/15/2015 13:21
Electronic Slope	97.4
Instrument ID	Randolph
Probe ID	WCP108
Sufficient volume for sample dup	Y

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

2.6 | C3.6

Chain of Custody Record

016161

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Pike	Site Contact: Stu Cameron	Date: 7-15-15	COC No:
Company Name: Tetra Tech	Tel/Fax:	Lab Contact: John McFadden	Carrier:	1 of 1 COCs
Address: 20251 Century Blvd Ste 200	Analysis Turnaround Time			Sampler:
City/State/Zip: Germantown MD 20874	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (301) 528-5552	TAT if different from Below 5 day TAT			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: MPE	☐ 1 week			
Site: Block E, MRC	☐ 2 days			Job / SDG No.:
P O # 11JC04770	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs - pp with pH		Sample Specific Notes:
DSP-6-071515	7-15-15	0915	G	AQ	4	N	N	X	X	
TB-071515	7/15/15	→	—	AQ	2			X		

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ 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:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Tetra Tech	Date/Time: 7-15-15 1830	Received by:	Company: TestAmerica	Date/Time: 7/15/15 1860
Relinquished by:	Company: TestAmerica	Date/Time: 7/15/15 1840	Received by:	Company: TA	Date/Time: 7.16.15 920
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Canton Sample Receipt Form/Narrative Login # : 65831
Canton Facility

Client Tetra Tech Site Name

Cooler unpacked by:

Cooler Received on 7-16-15 Opened on 7-16-15

FedEx: 1st ~~Grd~~ ~~Exp~~ UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box ~~Client Cooler~~ Box Other

Packing material used: ~~Bubble~~ Wrap Foam Plastic Bag None Other

COOLANT: ~~Wet Ice~~ Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A (CF +1.0 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 3.6 °C

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C~~

☐ See Multiple Cooler Form

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 ~~Yes~~ No
   -Were custody seals on the outside of the cooler(s) signed & dated? ~~Yes~~ No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes ~~No~~
3. Shippers' packing slip attached to the cooler(s)? ~~Yes~~ No
4. Did custody papers accompany the sample(s)? ~~Yes~~ No
5. Were the custody papers relinquished & signed in the appropriate place? ~~Yes~~ No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes ~~No~~
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 correct bottle(s) used for the test(s) indicated? ~~Yes~~ No
10. Sufficient quantity received to perform indicated analyses? ~~Yes~~ No
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC432654
12. Were VOAs on the COC? ~~Yes~~ No
13. Were air bubbles >6 mm in any VOA vials? Yes ~~No~~ NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # ~~Yes~~ No

Contacted PM Date by via Verbal Voice Mail Other
Concerning

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) 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 the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

8/14/2015 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-54374-1

Job Description: MRC MPE System

For:
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Pittsburgh, PA 15220-2745

Attention: Chris Pike



Approved for release.
John McFadden
Project Manager I
8/21/2015 9:48 AM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
08/21/2015

cc: Tony Apanavage
Samantha Brenner
Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MRC MPE System

Report Number: 240-54374-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT
The sample was received on 8/15/2015 9:40 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)
Sample DSP-7-081415 (240-54374-1) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The samples were analyzed on 08/17/2015.

Methylene Chloride was detected in method blank MB 240-193616/5 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. If the associated sample reported a result above the MDL and/or RL, the result has been flagged.

The following sample submitted for volatiles analysis was received with insufficient preservation (pH >2): DSP-7-081415 (240-54374-1). The pH of the sample was 5.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Sample DSP-7-081415 (240-54374-1) was analyzed for pH in accordance with SM 4500 H+ B. The samples were analyzed on 08/15/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Instrument ID: A3UX12 Analysis Batch Number: 190559

Lab Sample ID: STD8260 240-190559/7 IC Client Sample ID:

Date Analyzed: 07/24/15 13:56 Lab File ID: U1245778.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.94	Split Peak	laveyt	07/24/15 15:32

Lab Sample ID: STD8260 240-190559/8 IC Client Sample ID:

Date Analyzed: 07/24/15 14:21 Lab File ID: U1245779.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Dichlorodifluoromethane	1.63	Split Peak	laveyt	07/24/15 14:49

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-54374-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-54374-1	DSP-7-081415	Water	08/14/2015 1105	08/15/2015 0940

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-54374-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-54374-1	**DSP-7-081415**					
pH		6.86	HF	0.100	SU	4500 H+ B-2000

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-54374-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
pH	TAL CAN	SM 4500 H+ B-2000	

Lab References:

TAL CAN = TestAmerica Canton

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-54374-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
SM 4500 H+ B-2000	Nolle, Laura C	LCN

Client: Tetra Tech, Inc. Job Number: 240-54374-1

Client Sample ID: DSP-7-081415

Lab Sample ID: 240-54374-1 Date Sampled: 08/14/2015 1105
Client Matrix: Water Date Received: 08/15/2015 0940

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-193616	Instrument ID:	A3UX12
	N/A	Prep Batch:	N/A	Lab File ID:	U1246061.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	08/17/2015 2333			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		78 - 125
4-Bromofluorobenzene (Surr)	81		61 - 120

General Chemistry

Client Sample ID: **DSP-7-081415**

Lab Sample ID: 240-54374-1 Date Sampled: 08/14/2015 1105
Client Matrix: Water Date Received: 08/15/2015 0940

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
pH	6.86	HF	SU	0.100	0.100	1.0	4500 H+ B-2000

Analysis Batch: 240-193430 Analysis Date: 08/15/2015 1119

Client: Tetra Tech, Inc.

Job Number: 240-54374-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec
240-54374-1	DSP-7-081415	92	81
MB 240-193616/5		96	96
LCS 240-193616/6		105	88
240-54335-C-1 MS		105	93

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
BFB = 4-Bromofluorobenzene (Surr)	61-120

Client: Tetra Tech, Inc. Job Number: 240-54374-1

Method Blank - Batch: 240-193616

Method: 624
Preparation: N/A

Lab Sample ID:	MB 240-193616/5	Analysis Batch:	240-193616	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	U1246044.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	08/17/2015 1640	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.556	J	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	78 - 125
4-Bromofluorobenzene (Surr)	96	61 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	88	61 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	93	61 - 120

Client: Tetra Tech, Inc. Job Number: 240-54374-1

Lab Control Sample - Batch: 240-193430

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-193430/2	Analysis Batch:	240-193430	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/15/2015 1119	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.15	6.200	101	97 - 103	

Duplicate - Batch: 240-193430

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-54382-D-1 DU	Analysis Batch:	240-193430	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	08/15/2015 1119	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	6.99	7.000	0.1	20	

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-54374-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Client: Tetra Tech, Inc. Job Number: 240-54374-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-193616					
LCS 240-193616/6	Lab Control Sample	T	Water	624	
MB 240-193616/5	Method Blank	T	Water	624	
240-54335-C-1 MS	Matrix Spike	T	Water	624	
240-54374-1	DSP-7-081415	T	Water	624	

Report Basis
T = Total

General Chemistry					
Analysis Batch:240-193430					
LCS 240-193430/2	Lab Control Sample	T	Water	4500 H+ B-2000	
240-54374-1	DSP-7-081415	T	Water	4500 H+ B-2000	
240-54382-D-1 DU	Duplicate	T	Water	4500 H+ B-2000	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-54374-1

Laboratory Chronicle

Lab ID: 240-54374-1 **Client ID: DSP-7-081415**

Sample Date/Time: 08/14/2015 11:05 Received Date/Time: 08/15/2015 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-54374-B-1		240-193616		08/17/2015 23:33	1	TAL CAN	TJL1
A:4500 H+ B-2000	240-54374-D-1		240-193430		08/15/2015 11:19	1	TAL CAN	LCN

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-193616/5		240-193616		08/17/2015 16:40	1	TAL CAN	TJL1

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-193616/6		240-193616		08/17/2015 15:51	1	TAL CAN	TJL1
A:4500 H+ B-2000	LCS 240-193430/2		240-193430		08/15/2015 11:19	1	TAL CAN	LCN

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 08/13/2015 11:00 Received Date/Time: 08/14/2015 09:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-54335-C-1 MS		240-193616		08/18/2015 00:22	1	TAL CAN	TJL1

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 08/14/2015 09:40 Received Date/Time: 08/15/2015 09:40

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-54382-D-1 DU		240-193430		08/15/2015 11:19	1	TAL CAN	LCN

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_00025	12/19/15	06/19/15	MEOH, Lot 85233	50 mL	vm30241_00003	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00003	04/30/20		restek, Lot A0110589		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00020	10/22/15	04/22/15	MEOH, Lot 85233	100 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00209	07/29/15	07/22/15	MEOH, Lot na	2 mL	vm50ss_stk_00065	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00109	07/31/15	07/24/15	MEOH, Lot na	3 mL	VMACROLSTD_00027	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00027	07/31/15	07/08/15	MEOH, Lot +161620000085233JB	20 mL	VM568720_00007	0.25 mL	Acrolein	250 ug/mL
..VM568720_00007	07/31/15		restek, Lot A0109948		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00112	08/24/15	08/17/15	MEOH, Lot na	3 mL	VMACROLSTD_00028	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00028	09/30/15	07/31/15	MEOH, Lot 147358	20 mL	VM568720S_00008	250 uL	Acrolein	250 ug/mL
..VM568720S_00008	09/30/15		restek, Lot A0111005		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00096	08/21/15	08/14/15	MEOH, Lot NA	2 mL	VMFASA_00019	2 mL	Acrolein	250 ug/mL
.VMFASA_00019	09/30/15	07/29/15	MEOH, Lot 147358	100 mL	VM568720S_00008	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00008	09/30/15		restek, Lot A0111005		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00109	08/17/15	08/10/15	MEOH, Lot NA	2 mL	VMFASG_00032	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00032	08/28/15	07/28/15	MEOH, Lot 147358	50 mL	VM567645S_00017	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00017	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00111	08/17/15	08/10/15	MEOH, Lot n/a	2 mL	VMRFASP_00022	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
.VMRFASP_00022	10/31/15	07/28/15	MEOH, Lot 147358	100 mL	VM567641S_00007	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM569723S_00002	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM569723S_00002	03/31/18		Restek, Lot A0110013		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
VMRGAS_00111	07/28/15	07/21/15	MEOH, Lot 0000085233	10 mL	vm569722_00001	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00001	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00114	08/20/15	08/13/15	MEOH, Lot 147358	10 mL	vm569722_00002	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00002	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00140	07/31/15	07/24/15	MEOH, Lot NA	1 mL	VMRPRIM_00012	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
.VMRPRIM_00012	08/31/15	05/27/15	MEOH, Lot +161620000085233JB	50 mL	VM567641_00013	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00015	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00001	0.5 mL	Vinyl acetate	50 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00015	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM569724_00001	08/31/15		Restek, Lot A0109190		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VMRPRIMW_00142	08/17/15	08/10/15	MEOH, Lot NA	1 mL	VMRPRIM_00012	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00012	08/31/15	05/27/15	MEOH, Lot +161620000085233JB	50 mL	VM567641_00013	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCPH7_00073	11/03/16		Fisher Scientific, Lot 147660		(Purchased Reagent)		pH	7 SU
WCPHLCS_00010	08/31/16		Phenova, Lot 8137-15		(Purchased Reagent)		pH	6.15 SU

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-54374-1
Project/Site: MRC MPE System

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	Kentucky (WW)	State Program	4	98016
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Oregon	NELAP	10	4062
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	T104704517-14-3
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DCA #	BFB #
DSP-7-081415	240-54374-1	92	81
	MB 240-193616/5	96	96
	LCS 240-193616/6	105	88
	240-54335-C-1 MS	105	93

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
BFB = 4-Bromofluorobenzene (Surr)	61-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Lab File ID: U1246044.D Lab Sample ID: MB 240-193616/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX12 Date Analyzed: 08/17/2015 16:40

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 240-193616/6	U1246042.D	08/17/2015 15:51
DSP-7-081415	240-54374-1	U1246061.D	08/17/2015 23:33
	240-54335-C-1 MS	U1246063.D	08/18/2015 00:22

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Lab File ID: BFB3012.D BFB Injection Date: 07/24/2015

Instrument ID: A3UX12 BFB Injection Time: 12:29

Analysis Batch No.: 190559

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.0	
75	30.0 - 60.0 % of mass 95	46.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.1	
173	Less than 2.0 % of mass 174	0.7	(0.9)1
174	50.0 - 120.00 % of mass 95	79.0	
175	5.0 - 9.0 % of mass 174	5.7	(7.2)1
176	95.0 - 101.0 % of mass 174	75.4	(95.5)1
177	5.0 - 9.0 % of mass 176	5.0	(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 240-190559/7	U1245778.D	07/24/2015	13:56
	STD8260 240-190559/8	U1245779.D	07/24/2015	14:21
	STD8260 240-190559/9	U1245780.D	07/24/2015	14:44
	STD8260 240-190559/10	U1245781.D	07/24/2015	15:07
	STD8260 240-190559/11	U1245782.D	07/24/2015	15:29
	STD8260 240-190559/12	U1245783.D	07/24/2015	15:51

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Lab File ID: BFB3022.D BFB Injection Date: 08/17/2015

Instrument ID: A3UX12 BFB Injection Time: 14:58

Analysis Batch No.: 193616

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.7	
75	30.0 - 60.0 % of mass 95	48.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.4	
173	Less than 2.0 % of mass 174	0.9	(1.2)1
174	50.0 - 120.00 % of mass 95	79.0	
175	5.0 - 9.0 % of mass 174	5.3	(6.8)1
176	95.0 - 101.0 % of mass 174	76.6	(97.0)1
177	5.0 - 9.0 % of mass 176	4.5	(5.8)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 240-193616/3	U1246041.D	08/17/2015	15:26
	LCS 240-193616/6	U1246042.D	08/17/2015	15:51
	CCV 240-193616/4	U1246043.D	08/17/2015	16:15
	MB 240-193616/5	U1246044.D	08/17/2015	16:40
DSP-7-081415	240-54374-1	U1246061.D	08/17/2015	23:33
	240-54335-C-1 MS	U1246063.D	08/18/2015	00:22

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Sample No.: STD8260 240-190559/10 Date Analyzed: 07/24/2015 15:07

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1245781.D Heated Purge: (Y/N) N

Calibration ID: 29843

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		690853	5.41	515562	8.22	224026	10.60
UPPER LIMIT		1381706	5.91	1031124	8.72	448052	11.10
LOWER LIMIT		345427	4.91	257781	7.72	112013	10.10
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 240-193616/3		683700	5.40	533499	8.22	208384	10.61

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 624

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Sample No.: CCVIS 240-193616/3 Date Analyzed: 08/17/2015 15:26

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1246041.D Heated Purge: (Y/N) N

Calibration ID: 29843

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		683700	5.40	533499	8.22	208384	10.61
UPPER LIMIT		1367400	5.90	1066998	8.72	416768	11.11
LOWER LIMIT		341850	4.90	266750	7.72	104192	10.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-193616/6		670435	5.40	520588	8.22	195822	10.61
CCV 240-193616/4		660402	5.40	529615	8.22	197372	10.61
MB 240-193616/5		681455	5.40	516686	8.22	198139	10.61
240-54374-1	DSP-7-081415	696959	5.41	548594	8.22	220208	10.61
240-54335-C-1 MS		685938	5.41	523521	8.22	217580	10.61

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-54374-1

SDG No.:

Client Sample ID: DSP-7-081415 | Lab Sample ID: 240-54374-1

Matrix: Water | Lab File ID: U1246061.D

Analysis Method: 624 | Date Collected: 08/14/2015 11:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/17/2015 23:33

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.: 193616 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-54374-1

SDG No.:

Client Sample ID: DSP-7-081415 | Lab Sample ID: 240-54374-1

Matrix: Water | Lab File ID: U1246061.D

Analysis Method: 624 | Date Collected: 08/14/2015 11:05

Sample wt/vol: 5(mL) | Date Analyzed: 08/17/2015 23:33

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.: 193616 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		78-125
460-00-4	4-Bromofluorobenzene (Surr)	81		61-120

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-54374-1 Analy Batch No.: 190559

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2015 13:56 Calibration End Date: 07/24/2015 15:51 Calibration ID: 29843

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-190559/7	U1245778.D
Level 2	STD8260 240-190559/8	U1245779.D
Level 3	STD8260 240-190559/9	U1245780.D
Level 4	STD8260 240-190559/10	U1245781.D
Level 5	STD8260 240-190559/11	U1245782.D
Level 6	STD8260 240-190559/12	U1245783.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	+++++ 0.3702	0.2130	0.3973	0.3493	0.3873	Ave		0.3434				21.9		35.0			
Chloromethane	0.3955 0.4717	0.4861	0.5067	0.5296	0.5354	Ave		0.4875				10.5		35.0			
Vinyl chloride	0.5283 0.5353	0.4777	0.5887	0.5447	0.5884	Ave		0.5438				7.7		35.0			
Bromomethane	+++++ 0.3392	0.2582	0.3392	0.3399	0.3640	Ave		0.3281				12.3		35.0			
Chloroethane	0.3321 0.3698	0.3349	0.3818	0.3745	0.3974	Ave		0.3651				7.2		35.0			
Dichlorofluoromethane	0.6839 0.8036	0.6136	0.8366	0.8329	0.8891	Ave		0.7766				13.5		35.0			
Trichlorofluoromethane	+++++ 0.5334	0.3360	0.5441	0.5203	0.5503	Ave		0.4968				18.2		35.0			
Ethyl ether	0.2490 0.2590	0.2303	0.2781	0.2717	0.2865	Ave		0.2624				7.9		35.0			
Acrolein	0.0316 0.0392	0.0310	0.0377	0.0393	0.0406	Ave		0.0366				11.4		35.0			
1,1-Dichloroethene	0.5381 0.6103	0.4974	0.5828	0.5710	0.6265	Ave		0.5710				8.3		35.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.3623	0.2341	0.3383	0.3271	0.3654	Ave		0.3254				16.5		35.0			
Acetone	+++++ 0.1255	0.1756	0.1393	0.1348	0.1356	Ave		0.1422				13.6		35.0			
Iodomethane	0.6400 0.6302	0.5768	0.6836	0.6663	0.7166	Ave		0.6523				7.4		35.0			
Carbon disulfide	0.8884 0.7956	0.7346	0.8327	0.8193	0.9031	Ave		0.8290				7.5		35.0			
Methyl acetate	0.2665 0.2842	0.2497	0.2814	0.2728	0.2850	Ave		0.2733				5.0		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-54374-1 Analy Batch No.: 190559

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2015 13:56 Calibration End Date: 07/24/2015 15:51 Calibration ID: 29843

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								
Methylene Chloride	+++++ 0.5297	0.7079	0.5472	0.5401	0.5876	Ave		0.5825				12.6		35.0			
2-Methyl-2-propanol	+++++ 0.0336	0.0326	0.0376	0.0446	0.0421	Ave		0.0381				13.8		35.0			
Acrylonitrile	0.1659 0.1687	0.1466	0.1573	0.1594	0.1650	Ave		0.1605				5.0		35.0			
Methyl tert-butyl ether	0.9695 0.9696	0.8400	1.0267	1.0096	1.0614	Ave		0.9795				7.8		35.0			
trans-1,2-Dichloroethene	0.3205 0.4092	0.3716	0.4164	0.4175	0.4520	Ave		0.3979				11.5		35.0			
Hexane	0.1617 0.2184	0.1902	0.2129	0.1821	0.2026	Ave		0.1946				10.8		35.0			
1,1-Dichloroethane	0.3851 0.4935	0.3996	0.5401	0.5292	0.5686	Ave		0.4860				15.8		35.0			
Vinyl acetate	0.3767 0.4444	0.3173	0.3829	0.4003	0.4078	Ave		0.3882				10.9		35.0			
cis-1,2-Dichloroethene	0.3806 0.3960	0.3453	0.4315	0.4214	0.4554	Ave		0.4051				9.7		35.0			
2-Butanone (MEK)	0.2016 0.1798	0.1457	0.1647	0.1677	0.1789	Ave		0.1731				10.8		35.0			
2,2-Dichloropropane	+++++ 0.2047	0.1702	0.2474	0.2191	0.2481	Ave		0.2179				14.9		35.0			
Chlorobromomethane	0.2223 0.2182	0.2132	0.2275	0.2415	0.2657	Ave		0.2314				8.4		35.0			
Chloroform	0.4442 0.4585	0.4215	0.4847	0.4842	0.5253	Ave		0.4697				7.7		35.0			
1,1,1-Trichloroethane	0.2533 0.3553	0.2987	0.3829	0.3648	0.4082	Ave		0.3439				16.7		35.0			
Cyclohexane	0.2965 0.2862	0.3266	0.4028	0.3406	0.3557	Ave		0.3348				12.7		35.0			
1,1-Dichloropropene	0.3273 0.3246	0.2570	0.3342	0.3387	0.3724	Ave		0.3257				11.6		35.0			
Carbon tetrachloride	0.2091 0.2699	0.1661	0.2636	0.2568	0.2938	Ave		0.2432				19.3		35.0			
Isobutyl alcohol	+++++ 0.0088	0.0040	0.0065	0.0075	0.0075	Ave		0.0069				25.7		35.0			
Benzene	1.1586 1.1925	1.0943	1.2922	1.2929	1.3558	Ave		1.2310				8.0		35.0			
1,2-Dichloroethane	0.3940 0.3821	0.3929	0.4470	0.4071	0.4339	Ave		0.4095				6.3		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-54374-1 Analy Batch No.: 190559

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2015 13:56 Calibration End Date: 07/24/2015 15:51 Calibration ID: 29843

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								
Trichloroethene	0.2682 0.2881	0.3194	0.3188	0.3073	0.3265	Ave		0.3047				7.3		35.0			
Methylcyclohexane	0.2267 0.2946	0.2436	0.2758	0.2558	0.2860	Ave		0.2638				9.9		35.0			
1,2-Dichloropropane	0.2555 0.2947	0.2295	0.3182	0.3000	0.3249	Ave		0.2871				13.0		35.0			
Dibromomethane	0.2176 0.2017	0.1641	0.2152	0.2133	0.2208	Ave		0.2055				10.4		35.0			
Dichlorobromomethane	0.3111 0.3472	0.2233	0.3390	0.3377	0.3776	Ave		0.3226				16.5		35.0			
2-Chloroethyl vinyl ether	0.1957 0.2404	0.2099	0.2339	0.2399	0.2541	Ave		0.2290				9.5		35.0			
cis-1,3-Dichloropropene	0.5156 0.4735	0.3760	0.4582	0.4806	0.5284	Ave		0.4721				11.4		35.0			
4-Methyl-2-pentanone (MIBK)	0.3016 0.3410	0.2754	0.3307	0.3321	0.3382	Ave		0.3198				8.1		35.0			
Toluene	1.6235 1.5766	1.4466	1.7763	1.7136	1.8542	Ave		1.6651				8.8		35.0			
trans-1,3-Dichloropropene	0.3896 0.5423	0.4012	0.5304	0.5413	0.6054	Ave		0.5017				17.3		35.0			
Ethyl methacrylate	+++++ 0.5885	0.5023	0.5635	0.5643	0.6280	Ave		0.5693				8.0		35.0			
1,1,2-Trichloroethane	0.3795 0.3709	0.3797	0.3903	0.4158	0.4295	Ave		0.3943				5.9		35.0			
Tetrachloroethene	0.3274 0.2844	0.2569	0.3162	0.2997	0.3346	Ave		0.3032				9.6		35.0			
1,3-Dichloropropane	0.8583 0.7072	0.6525	0.7810	0.7689	0.8214	Ave		0.7649				9.8		35.0			
2-Hexanone	0.2496 0.3319	0.2900	0.3260	0.3193	0.3359	Ave		0.3088				10.8		35.0			
Chlorodibromomethane	0.2778 0.3269	0.1930	0.3019	0.3219	0.3594	Ave		0.2968				19.4		35.0			
Ethylene Dibromide	0.3418 0.3969	0.3591	0.4104	0.4036	0.4479	Ave		0.3933				9.7		35.0			
Chlorobenzene	1.3666 1.0484	1.0692	1.1454	1.1392	1.2490	Ave		1.1696				10.2		35.0			
1,1,1,2-Tetrachloroethane	0.3129 0.3191	0.2438	0.3201	0.3367	0.3649	Ave		0.3162				12.7		35.0			
Ethylbenzene	0.4460 0.4812	0.4782	0.5122	0.5115	0.5675	Ave		0.4994				8.3		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-54374-1 Analy Batch No.: 190559

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2015 13:56 Calibration End Date: 07/24/2015 15:51 Calibration ID: 29843

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	0.7111 0.5949	0.5435	0.6393	0.6484	0.7086	Ave		0.6410				10.2		35.0			
o-Xylene	0.5808 0.6127	0.5270	0.6566	0.6764	0.7304	Ave		0.6306				11.5		35.0			
Styrene	1.2174 1.1771	1.0867	1.1883	1.2701	1.3863	Ave		1.2210				8.3		35.0			
Bromoform	+++++ 0.2160	0.1483	0.1856	0.1950	0.2257	Ave		0.1941				15.6		35.0			
Isopropylbenzene	1.3143 1.2767	1.0636	1.3504	1.3709	1.4830	Ave		1.3098				10.6		35.0			
1,1,2,2-Tetrachloroethane	1.2970 1.4954	1.2927	1.4846	1.3739	1.4253	Ave		1.3948				6.4		35.0			
Bromobenzene	1.0024 1.0880	0.8917	1.1550	1.0963	1.1705	Ave		1.0673				9.8		35.0			
1,2,3-Trichloropropane	0.5586 0.5262	0.5426	0.5329	0.4821	0.4967	Ave		0.5232				5.5		35.0			
trans-1,4-Dichloro-2-butene	+++++ 0.4187	0.2277	0.3334	0.3481	0.3855	Ave		0.3427				21.1		35.0			
N-Propylbenzene	0.8378 0.8569	0.6030	0.8750	0.8074	0.9350	Ave		0.8192				13.9		35.0			
2-Chlorotoluene	0.6827 0.8591	0.8509	0.9292	0.8563	0.9264	Ave		0.8508				10.5		35.0			
1,3,5-Trimethylbenzene	2.9053 2.6616	2.5757	2.7777	2.6292	2.8991	Ave		2.7414				5.1		35.0			
4-Chlorotoluene	1.0151 0.9210	0.7725	1.0024	0.9215	1.0014	Ave		0.9390				9.8		35.0			
tert-Butylbenzene	2.4331 2.2846	2.0698	2.3732	2.2208	2.4322	Ave		2.3023				6.1		35.0			
1,2,4-Trimethylbenzene	2.7813 2.9547	2.5763	3.0095	2.8321	3.1276	Ave		2.8803				6.7		35.0			
sec-Butylbenzene	3.3017 3.0255	2.5861	3.1158	2.9458	3.2342	Ave		3.0348				8.4		35.0			
1,3-Dichlorobenzene	2.0402 1.7866	1.6541	1.8923	1.8131	1.8832	Ave		1.8449				7.0		35.0			
4-Isopropyltoluene	3.3260 2.8432	2.5072	2.8252	2.7060	3.0242	Ave		2.8719				9.8		35.0			
1,4-Dichlorobenzene	2.0654 1.8931	2.1537	1.9923	1.8632	2.0045	Ave		1.9954				5.4		35.0			
n-Butylbenzene	3.3117 2.3590	2.2470	2.2710	2.1781	2.5653	Ave		2.4887				17.1		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-54374-1 Analy Batch No.: 190559

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2015 13:56 Calibration End Date: 07/24/2015 15:51 Calibration ID: 29843

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	2.2282 1.8798	1.8483	2.0506	1.8636	2.0266	Ave		1.9828				7.5		35.0			
1,2-Dibromo-3-Chloropropane	0.3070 0.3606	0.2360	0.2929	0.2962	0.3241	Ave		0.3028				13.5		35.0			
1,2,4-Trichlorobenzene	+++++ 1.2513	1.1894	1.2930	1.2483	1.3091	Ave		1.2582				3.7		35.0			
Hexachlorobutadiene	+++++ 0.4238	0.5106	0.4370	0.4116	0.4660	Ave		0.4498				8.8		35.0			
Naphthalene	5.6461 4.7129	5.0685	4.4521	4.2506	4.7431	Ave		4.8122				10.3		35.0			
1,2,3-Trichlorobenzene	+++++ 1.2472	1.4246	1.2191	1.2093	1.2934	Ave		1.2787				6.9		35.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3288	0.2445	0.3489	0.3489	0.3700	Ave		0.3282				14.9		35.0			
Toluene-d8 (Surr)	+++++ 1.3537	1.1965	1.4868	1.4512	1.5706	Ave		1.4118				10.1		35.0			
4-Bromofluorobenzene (Surr)	+++++ 0.4748	0.4298	0.5233	0.5281	0.5433	Ave		0.4999				9.4		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-54374-1 Analy Batch No.: 190559

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2015 13:56 Calibration End Date: 07/24/2015 15:51 Calibration ID: 29843

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-190559/7	U1245778.D
Level 2	STD8260 240-190559/8	U1245779.D
Level 3	STD8260 240-190559/9	U1245780.D
Level 4	STD8260 240-190559/10	U1245781.D
Level 5	STD8260 240-190559/11	U1245782.D
Level 6	STD8260 240-190559/12	U1245783.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 1039010	7458	133162	241323	549452	+++++ 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	6560 1323856	17019	169826	365855	759579	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	8763 1502457	16723	197336	376282	834832	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	+++++ 952081	9038	113689	234792	516432	+++++ 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	5509 1037970	11723	127965	258724	563800	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	11344 2255437	21480	280402	575443	1261459	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	+++++ 1497090	11762	182387	359418	780789	+++++ 80.0	1.00	10.0	20.0	40.0
Ethyl ether	FB	Ave	4131 726826	8061	93230	187678	406408	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	2620 550120	5426	63199	135650	287816	2.50 400	5.00	50.0	100	200
1,1-Dichloroethene	FB	Ave	8925 1713061	17415	195344	394498	888832	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 1016822	8194	113404	226002	518355	+++++ 80.0	1.00	10.0	20.0	40.0
Acetone	FB	Ave	+++++ 704461	12295	93361	186321	384872	+++++ 160	2.00	20.0	40.0	80.0
Iodomethane	FB	Ave	10616 1768886	20194	229143	460302	1016735	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	14737 2233131	25718	279107	566021	1281338	0.500 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	22099 3988025	43714	471674	942387	2021837	2.50 400	5.00	50.0	100	200
Methylene Chloride	FB	Ave	+++++ 1486748	24784	183398	373141	833613	+++++ 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-54374-1 Analy Batch No.: 190559

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2015 13:56 Calibration End Date: 07/24/2015 15:51 Calibration ID: 29843

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methyl-2-propanol	FB	Ave	+++++ 942272	11396	126018	308412	597444	+++++ 800	10.0	100	200	400
Acrylonitrile	FB	Ave	27522 4736466	51311	527277	1101322	2340586	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	16082 2721431	29406	344123	697468	1505939	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	5317 1148449	13011	139581	288430	641334	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	2682 612975	6660	71366	125772	287409	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	6388 1385255	13988	181046	365591	806753	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	6248 1247430	11107	128340	276576	578617	0.500 80.0	1.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	6314 1111543	12090	144643	291143	646091	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	6687 1009494	10202	110441	231770	507681	1.00 160	2.00	20.0	40.0	80.0
2,2-Dichloropropane	FB	Ave	+++++ 574670	5960	82940	151332	351983	+++++ 80.0	1.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	3688 612394	7464	76248	166813	376997	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	7369 1286885	14756	162460	334504	745264	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	4202 997375	10457	128327	252035	579130	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	4919 803380	11435	135018	235303	504672	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	5429 911202	8998	112034	233983	528349	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	3468 757479	5816	88355	177410	416891	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	+++++ 615987	3538	54829	129518	264571	+++++ 2000	25.0	250	500	1000
Benzene	FB	Ave	19218 3346990	38309	433124	893211	1923534	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	6536 1072361	13756	149832	281223	615620	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	4449 808538	11181	106856	212298	463191	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	3761 826759	8528	92448	176727	405813	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-54374-1 Analy Batch No.: 190559

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2015 13:56 Calibration End Date: 07/24/2015 15:51 Calibration ID: 29843

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	4238 827236	8035	106665	207261	460931	0.500 80.0	1.00	10.0	20.0	40.0
Dibromomethane	FB	Ave	3609 566145	5746	72138	147367	313321	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	5160 974425	7819	113629	233287	535678	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	6491 1349792	14699	156803	331410	720911	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	8552 1329158	13165	153565	332026	749649	0.500 80.0	1.00	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	10006 1913975	19283	221656	458910	959738	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	20091 3360861	36018	445174	883451	1946126	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	4821 1156012	9990	132921	279080	635372	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl methacrylate	CBZ	Ave	+++++ 1254481	12507	141211	290925	659121	+++++ 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	4696 790591	9454	97818	214382	450816	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	4051 606220	6396	79237	154505	351137	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	10622 1507519	16246	195719	396425	862073	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	6178 1415050	14443	163387	329196	705080	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	3438 696940	4805	75649	165958	377259	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	4230 846163	8940	102844	208090	470111	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	16912 2234949	26622	287053	587319	1310908	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	3872 680144	6070	80220	173568	382938	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	5519 1025738	11907	128374	263712	595621	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	8800 1268224	13533	160213	334279	743731	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	7187 1306054	13122	164561	348718	766604	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	15065 2509260	27056	297802	654836	1454992	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-54374-1 Analy Batch No.: 190559

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2015 13:56 Calibration End Date: 07/24/2015 15:51 Calibration ID: 29843

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	+++++ 460521	3692	46515	100529	236865	+++++ 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	16265 2721588	26483	338425	706761	1556548	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	6801 1250789	12827	150630	307779	651500	0.500 80.0	1.00	10.0	20.0	40.0
Bromobenzene	DCB	Ave	5256 910036	8848	117187	245596	535030	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichloropropane	DCB	Ave	2929 440141	5384	54069	107995	227028	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 350208	2259	33832	77990	176213	+++++ 80.0	1.00	10.0	20.0	40.0
N-Propylbenzene	DCB	Ave	4393 716790	5983	88779	180874	427389	0.500 80.0	1.00	10.0	20.0	40.0
2-Chlorotoluene	DCB	Ave	3580 718573	8443	94279	191843	423442	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	15234 2226304	25557	281831	589003	1325190	0.500 80.0	1.00	10.0	20.0	40.0
4-Chlorotoluene	DCB	Ave	5323 770358	7665	101708	206442	457746	0.500 80.0	1.00	10.0	20.0	40.0
tert-Butylbenzene	DCB	Ave	12758 1910988	20537	240792	497528	1111791	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	14584 2471438	25563	305353	634470	1429652	0.500 80.0	1.00	10.0	20.0	40.0
sec-Butylbenzene	DCB	Ave	17313 2530649	25660	316135	659932	1478384	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	10698 1494421	16413	191997	406175	860815	0.500 80.0	1.00	10.0	20.0	40.0
4-Isopropyltoluene	DCB	Ave	17440 2378211	24877	286650	606205	1382393	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dichlorobenzene	DCB	Ave	10830 1583490	21370	202140	417399	916275	0.500 80.0	1.00	10.0	20.0	40.0
n-Butylbenzene	DCB	Ave	17365 1973231	22296	230424	487950	1172625	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	11684 1572321	18339	208060	417496	926393	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	1610 301587	2342	29716	66351	148164	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	+++++ 1046652	11802	131192	279650	598388	+++++ 80.0	1.00	10.0	20.0	40.0
Hexachlorobutadiene	DCB	Ave	+++++ 354448	5066	44340	92208	213015	+++++ 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-54374-1 Analy Batch No.: 190559

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/24/2015 13:56 Calibration End Date: 07/24/2015 15:51 Calibration ID: 29843

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Naphthalene	DCB	Ave	29606 3942144	50291	451726	952248	2168079	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCB	Ave	+++++ 1043264	14135	123693	270924	591226	+++++ 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 922773	8560	116941	241050	524870	+++++ 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 2885726	29791	372614	748194	1648491	+++++ 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	+++++ 1012185	10702	131158	272284	570232	+++++ 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:
Ave = Average ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Lab Sample ID: CCVIS 240-193616/3 Calibration Date: 08/17/2015 15:26

Instrument ID: A3UX12 Calib Start Date: 07/24/2015 13:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/24/2015 15:51

Lab File ID: U1246041.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	0.3434	0.4931		0.0287	0.0200	43.6	
Chloromethane	Ave	0.4875	0.4988		0.0205	0.0200	2.3	99.0
Vinyl chloride	Ave	0.5438	0.6520		0.0240	0.0200	19.9	96.0
Bromomethane	Ave	0.3281	0.3501		0.0213	0.0200	6.7	86.0
Chloroethane	Ave	0.3651	0.3970		0.0218	0.0200	8.8	62.0
Dichlorofluoromethane	Ave	0.7766	0.7842		0.0202	0.0200	1.0	
Trichlorofluoromethane	Ave	0.4968	0.6541		0.0263	0.0200	31.7	52.0
Ethyl ether	Ave	0.2624	0.2644		0.0201	0.0200	0.7	
Acrolein	Ave	0.0366	0.0412		0.113	0.100	12.8	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3254	0.3555		0.0218	0.0200	9.2	
1,1-Dichloroethene	Ave	0.5710	0.6020		0.0211	0.0200	5.4	49.0
Acetone	Ave	0.1422	0.1091		0.0307	0.0400	-23.3	
Iodomethane	Ave	0.6523	0.6196		0.0190	0.0200	-5.0	
Carbon disulfide	Ave	0.8290	0.9894		0.0239	0.0200	19.4	
Methyl acetate	Ave	0.2733	0.2546		0.0932	0.100	-6.8	
Methylene Chloride	Ave	0.5825	0.5092		0.0175	0.0200	-12.6	39.0
2-Methyl-2-propanol	Ave	0.0381	0.0376		0.197	0.200	-1.4	
Acrylonitrile	Ave	0.1605	0.1518		0.189	0.200	-5.4	
Methyl tert-butyl ether	Ave	0.9795	0.9672		0.0197	0.0200	-1.3	
trans-1,2-Dichloroethene	Ave	0.3979	0.4248		0.0214	0.0200	6.8	30.0
Hexane	Ave	0.1946	0.2421		0.0249	0.0200	24.4	
1,1-Dichloroethane	Ave	0.4860	0.5408		0.0223	0.0200	11.3	27.0
Vinyl acetate	Ave	0.3882	0.3020		0.0156	0.0200	-22.2	
2,2-Dichloropropane	Ave	0.2179	0.1864		0.0171	0.0200	-14.5	
2-Butanone (MEK)	Ave	0.1731	0.1582		0.0366	0.0400	-8.6	
cis-1,2-Dichloroethene	Ave	0.4051	0.4299		0.0212	0.0200	6.1	
Chlorobromomethane	Ave	0.2314	0.2422		0.0209	0.0200	4.7	
Chloroform	Ave	0.4697	0.5094		0.0217	0.0200	8.4	33.0
1,1,1-Trichloroethane	Ave	0.3439	0.3659		0.0213	0.0200	6.4	25.0
Cyclohexane	Ave	0.3348	0.4040		0.0241	0.0200	20.7	
1,1-Dichloropropene	Ave	0.3257	0.3825		0.0235	0.0200	17.4	
Carbon tetrachloride	Ave	0.2432	0.2449		0.0201	0.0200	0.7	27.0
Isobutyl alcohol	Ave	0.0069	0.0041		0.302	0.500	-39.6	
Benzene	Ave	1.231	1.307		0.0212	0.0200	6.2	36.0
1,2-Dichloroethane	Ave	0.4095	0.3912		0.0191	0.0200	-4.5	32.0
Trichloroethene	Ave	0.3047	0.3169		0.0208	0.0200	4.0	33.0
Methylcyclohexane	Ave	0.2638	0.3384		0.0257	0.0200	28.3	
1,2-Dichloropropane	Ave	0.2871	0.3135		0.0218	0.0200	9.2	66.0
Dibromomethane	Ave	0.2055	0.2200		0.0214	0.0200	7.1	
Dichlorobromomethane	Ave	0.3226	0.3428		0.0213	0.0200	6.3	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Lab Sample ID: CCVIS 240-193616/3 Calibration Date: 08/17/2015 15:26

Instrument ID: A3UX12 Calib Start Date: 07/24/2015 13:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/24/2015 15:51

Lab File ID: U1246041.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	0.2290	0.2355		0.0411	0.0400	2.8	99.0
cis-1,3-Dichloropropene	Ave	0.4721	0.4598		0.0195	0.0200	-2.6	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3198	0.3189		0.0399	0.0400	-0.3	
Toluene	Ave	1.665	1.693		0.0203	0.0200	1.7	26.0
trans-1,3-Dichloropropene	Ave	0.5017	0.4699		0.0187	0.0200	-6.3	50.0
Ethyl methacrylate	Ave	0.5693	0.4321		0.0152	0.0200	-24.1	
1,1,2-Trichloroethane	Ave	0.3943	0.3750		0.0190	0.0200	-4.9	29.0
Tetrachloroethene	Ave	0.3032	0.3132		0.0207	0.0200	3.3	26.0
1,3-Dichloropropane	Ave	0.7649	0.7318		0.0191	0.0200	-4.3	
2-Hexanone	Ave	0.3088	0.2946		0.0382	0.0400	-4.6	
Chlorodibromomethane	Ave	0.2968	0.2881		0.0194	0.0200	-2.9	33.0
Ethylene Dibromide	Ave	0.3933	0.3705		0.0188	0.0200	-5.8	
Chlorobenzene	Ave	1.170	1.120		0.0191	0.0200	-4.3	34.0
1,1,1,2-Tetrachloroethane	Ave	0.3162	0.2865		0.0181	0.0200	-9.4	
Ethylbenzene	Ave	0.4994	0.4985		0.0200	0.0200	-0.2	41.0
m-Xylene & p-Xylene	Ave	0.6410	0.6282		0.0196	0.0200	-2.0	
o-Xylene	Ave	0.6306	0.6284		0.0199	0.0200	-0.4	
Styrene	Ave	1.221	1.217		0.0199	0.0200	-0.3	
Bromoform	Ave	0.1941	0.1691		0.0174	0.0200	-12.9	29.0
Isopropylbenzene	Ave	1.310	1.333		0.0203	0.0200	1.7	
1,1,2,2-Tetrachloroethane	Ave	1.395	1.430		0.0205	0.0200	2.6	39.0
Bromobenzene	Ave	1.067	1.128		0.0211	0.0200	5.7	
1,2,3-Trichloropropane	Ave	0.5232	0.5140		0.0196	0.0200	-1.8	
trans-1,4-Dichloro-2-butene	Ave	0.3427	0.3602		0.0210	0.0200	5.1	
N-Propylbenzene	Ave	0.8192	0.9318		0.0228	0.0200	13.8	
2-Chlorotoluene	Ave	0.8508	0.8562		0.0201	0.0200	0.6	
1,3,5-Trimethylbenzene	Ave	2.741	2.779		0.0203	0.0200	1.4	
4-Chlorotoluene	Ave	0.9390	0.9870		0.0210	0.0200	5.1	
tert-Butylbenzene	Ave	2.302	2.359		0.0205	0.0200	2.5	
1,2,4-Trimethylbenzene	Ave	2.880	3.057		0.0212	0.0200	6.1	
sec-Butylbenzene	Ave	3.035	3.298		0.0217	0.0200	8.7	
1,3-Dichlorobenzene	Ave	1.845	1.826		0.0198	0.0200	-1.0	27.0
4-Isopropyltoluene	Ave	2.872	2.933		0.0204	0.0200	2.1	
1,4-Dichlorobenzene	Ave	1.995	1.930		0.0193	0.0200	-3.3	37.0
n-Butylbenzene	Ave	2.489	2.411		0.0194	0.0200	-3.1	
1,2-Dichlorobenzene	Ave	1.983	1.910		0.0193	0.0200	-3.7	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.3028	0.2380		0.0157	0.0200	-21.4	
1,2,4-Trichlorobenzene	Ave	1.258	1.198		0.0190	0.0200	-4.8	
Hexachlorobutadiene	Ave	0.4498	0.4390		0.0195	0.0200	-2.4	
Naphthalene	Ave	4.812	4.083		0.0170	0.0200	-15.1	
1,2,3-Trichlorobenzene	Ave	1.279	1.152		0.0180	0.0200	-9.9	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Lab Sample ID: CCVIS 240-193616/3 Calibration Date: 08/17/2015 15:26

Instrument ID: A3UX12 Calib Start Date: 07/24/2015 13:56

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 07/24/2015 15:51

Lab File ID: U1246041.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-Dichloroethane-d4 (Surr)	Ave	0.3282	0.3260		0.0164	0.0165	-0.7	20.0
Toluene-d8 (Surr)	Ave	1.412	1.372		0.0161	0.0165	-2.8	
4-Bromofluorobenzene (Surr)	Ave	0.4999	0.4597		0.0152	0.0165	-8.0	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-54374-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-193616/5

Matrix: Water | Lab File ID: U1246044.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/17/2015 16:40

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.: 193616 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.556	J	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-193616/5

Matrix: Water Lab File ID: U1246044.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/17/2015 16:40

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.: 193616 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125
460-00-4	4-Bromofluorobenzene (Surr)	96		61-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-54374-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-193616/6

Matrix: Water | Lab File ID: U1246042.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/17/2015 15:51

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.: 193616 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.4		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	21.5		1.0	0.22
79-00-5	1,1,2-Trichloroethane	19.6		1.0	0.24
75-34-3	1,1-Dichloroethane	23.3		1.0	0.30
75-35-4	1,1-Dichloroethene	22.6		1.0	0.45
95-50-1	1,2-Dichlorobenzene	21.1		1.0	0.25
107-06-2	1,2-Dichloroethane	20.1		1.0	0.23
78-87-5	1,2-Dichloropropane	21.7		1.0	0.25
541-73-1	1,3-Dichlorobenzene	20.6		1.0	0.19
106-46-7	1,4-Dichlorobenzene	20.0		1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	21.6		2.0	0.59
107-02-8	Acrolein	116		20	4.5
107-13-1	Acrylonitrile	190		20	6.3
71-43-2	Benzene	21.4		1.0	0.35
75-25-2	Bromoform	17.6		1.0	0.56
74-83-9	Bromomethane	19.2		2.0	0.44
56-23-5	Carbon tetrachloride	21.2		1.0	0.43
108-90-7	Chlorobenzene	19.1		1.0	0.25
124-48-1	Chlorodibromomethane	19.6		1.0	0.43
75-00-3	Chloroethane	19.7		2.0	0.32
67-66-3	Chloroform	22.2		1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	19.5		1.0	0.46
75-27-4	Dichlorobromomethane	21.3		1.0	0.29
100-41-4	Ethylbenzene	20.1		1.0	0.25
75-09-2	Methylene Chloride	18.5		2.0	0.33
127-18-4	Tetrachloroethene	21.0		1.0	0.31
108-88-3	Toluene	20.5		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	23.2		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	20.2		1.0	0.56
79-01-6	Trichloroethene	21.8		1.0	0.22
75-69-4	Trichlorofluoromethane	25.3		2.0	0.49
75-01-4	Vinyl chloride	21.7		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-54374-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-193616/6

Matrix: Water | Lab File ID: U1246042.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/17/2015 15:51

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.: 193616 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		78-125
460-00-4	4-Bromofluorobenzene (Surr)	88		61-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-54374-1

SDG No.:

Client Sample ID: | Lab Sample ID: 240-54335-C-1 MS

Matrix: Water | Lab File ID: U1246063.D

Analysis Method: 624 | Date Collected: 08/13/2015 11:00

Sample wt/vol: 1(mL) | Date Analyzed: 08/18/2015 00:22

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.: 193616 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	99.8		5.0	2.2
79-34-5	1,1,2,2-Tetrachloroethane	88.2		5.0	1.1
79-00-5	1,1,2-Trichloroethane	98.4		5.0	1.2
75-34-3	1,1-Dichloroethane	121		5.0	1.5
75-35-4	1,1-Dichloroethene	109		5.0	2.3
107-06-2	1,2-Dichloroethane	102		5.0	1.2
78-87-5	1,2-Dichloropropane	108		5.0	1.3
110-75-8	2-Chloroethyl vinyl ether	102		10	3.0
107-02-8	Acrolein	73.5	J	100	23
107-13-1	Acrylonitrile	955		100	32
71-43-2	Benzene	109		5.0	1.8
75-25-2	Bromoform	73.6		5.0	2.8
74-83-9	Bromomethane	95.8		10	2.2
56-23-5	Carbon tetrachloride	89.2		5.0	2.2
108-90-7	Chlorobenzene	97.4		5.0	1.3
124-48-1	Chlorodibromomethane	91.3		5.0	2.2
75-00-3	Chloroethane	101		10	1.6
67-66-3	Chloroform	112		5.0	1.3
10061-01-5	cis-1,3-Dichloropropene	96.0		5.0	2.3
75-27-4	Dichlorobromomethane	99.0		5.0	1.5
100-41-4	Ethylbenzene	101		5.0	1.3
75-09-2	Methylene Chloride	92.8		10	1.7
127-18-4	Tetrachloroethene	104		5.0	1.6
108-88-3	Toluene	104		5.0	1.2
156-60-5	trans-1,2-Dichloroethene	118		2.5	1.5
10061-02-6	trans-1,3-Dichloropropene	94.0		5.0	2.8
79-01-6	Trichloroethene	115		5.0	1.1
75-01-4	Vinyl chloride	106		10	1.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		78-125
460-00-4	4-Bromofluorobenzene (Surr)	93		61-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Instrument ID: A3UX12 Start Date: 07/24/2015 12:29

Analysis Batch Number: 190559 End Date: 07/24/2015 15:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-190559/1		07/24/2015 12:29	1	BFB3012.D	DB-624 0.18(mm)
STD8260 240-190559/7 IC		07/24/2015 13:56	1	U1245778.D	DB-624 0.18(mm)
STD8260 240-190559/8 IC		07/24/2015 14:21	1	U1245779.D	DB-624 0.18(mm)
STD8260 240-190559/9 IC		07/24/2015 14:44	1	U1245780.D	DB-624 0.18(mm)
STD8260 240-190559/10 ICIS		07/24/2015 15:07	1	U1245781.D	DB-624 0.18(mm)
STD8260 240-190559/11 IC		07/24/2015 15:29	1	U1245782.D	DB-624 0.18(mm)
STD8260 240-190559/12 IC		07/24/2015 15:51	1	U1245783.D	DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Instrument ID: A3UX12 Start Date: 08/17/2015 14:58

Analysis Batch Number: 193616 End Date: 08/18/2015 00:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-193616/1		08/17/2015 14:58	1	BFB3022.D	DB-624 0.18(mm)
CCVIS 240-193616/3		08/17/2015 15:26	1	U1246041.D	DB-624 0.18(mm)
LCS 240-193616/6		08/17/2015 15:51	1	U1246042.D	DB-624 0.18(mm)
CCV 240-193616/4		08/17/2015 16:15	1	U1246043.D	DB-624 0.18(mm)
MB 240-193616/5		08/17/2015 16:40	1	U1246044.D	DB-624 0.18(mm)
ZZZZZ		08/17/2015 21:29	1		DB-624 0.18(mm)
ZZZZZ		08/17/2015 21:54	1		DB-624 0.18(mm)
ZZZZZ		08/17/2015 22:19	1		DB-624 0.18(mm)
ZZZZZ		08/17/2015 22:44	1		DB-624 0.18(mm)
ZZZZZ		08/17/2015 23:08	1		DB-624 0.18(mm)
240-54374-1	DSP-7-081415	08/17/2015 23:33	1	U1246061.D	DB-624 0.18(mm)
ZZZZZ		08/17/2015 23:58	1		DB-624 0.18(mm)
240-54335-C-1 MS		08/18/2015 00:22	1	U1246063.D	DB-624 0.18(mm)

624

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-54374-1

SDG No.:

Project: MRC MPE System

Client Sample ID	Lab Sample ID
DSP-7-081415	240-54374-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DSP-7-081415 Lab Sample ID: 240-54374-1

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG ID.:

Matrix: Water Date Sampled: 08/14/2015 11:05

Reporting Basis: WET Date Received: 08/15/2015 09:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	pH	6.86	0.100	0.100	SU		HF	1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Analyst: LCN Batch Start Date: 08/15/2015

Reporting Units: SU Analytical Batch No.: 193430

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	11:19	pH	7.040	7.00	101	99-101		WCPH7_00073
11	CCV	11:36	pH	7.020	7.00	100	99-101		WCPH7_00073

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

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 193430 Date: 08/15/2015 11:19								
4500 H+ B-2000		240-54382-D-1	pH	6.99	SU			
4500 H+ B-2000		240-54382-D-1 DU	pH	7.000	SU	0.1	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 193430	Date: 08/15/2015 11:19										
						LCS Source: WCPHLCS_00010					
4500 H+ B-2000	LCS 240-193430/2	pH	6.200		SU	6.15	101	97-103			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-54374-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-54374-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 08/15/2015 11:19 End Date: 08/15/2015 11:36

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-193430/1	1		11:19	X																			
LCS 240-193430/2	1	T	11:19	X																			
240-54382-D-1 DU	1	T	11:19	X																			
240-54374-1	1	T	11:19	X																			
CCV 240-193430/11	1		11:36	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Batch Number: 193430 Batch Start Date: 08/15/15 11:19 Batch Analyst: Nolle, Laura C

Batch Method: 4500 H+ B-2000 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-193430/1		4500 H+ B-2000		10 mL	7.04 SU	21.0 Celsius			pH = Read 1
LCS 240-193430/2		4500 H+ B-2000		10 mL	6.20 SU	20.9 Celsius			pH = Read 1
240-54382-D-1 DU		4500 H+ B-2000	T	10 mL	7.00 SU	12.3 Celsius	7.00 SU	12.3 Celsius	Read 2 Pass
240-54374-D-1	DSP-7-081415	4500 H+ B-2000	T	10 mL	6.86 SU	17.3 Celsius	6.86 SU	17.3 Celsius	Read 2 Pass
CCV 240-193430/11		4500 H+ B-2000		10 mL	7.02 SU	20.4 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00073	WCPHLCS 00010				
CCV 240-193430/1		4500 H+ B-2000		10 mL					
LCS 240-193430/2		4500 H+ B-2000			10 mL				
240-54382-D-1 DU		4500 H+ B-2000	T						
240-54374-D-1	DSP-7-081415	4500 H+ B-2000	T						
CCV 240-193430/11		4500 H+ B-2000		10 mL					

Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1838816
pH Buffer 2 ID	4-2124388
pH Buffer 3 ID	7-1896764
pH Buffer 4 ID	10-2124389
pH Buffer 5 ID	12-2125110
Calibration Date and Time	8/15/15 1121
Electronic Slope	99.4
Instrument ID	Randolph
Probe ID	WCP108
Sufficient volume for sample dup	Y

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-54374-1

SDG No.:

Batch Number: 193430 Batch Start Date: 08/15/15 11:19 Batch Analyst: Nolle, Laura C

Batch Method: 4500 H+ B-2000 Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-54374 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Phone (330) 497-9396 Fax (330) 497-0772

1.8 | C 2.8

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: S. Cameron	Lab PM: McFadden, John	Carrier Tracking No(s):	COC No: 240-29530-12905.1
Client Contact: ~~Terry Apanavage~~ Chris Pike	Phone: (703) 342-8389	E-Mail: john.mcfadden@testamericainc.com		Page: Page 1 of 1
Company: Tetra Tech, Inc.				Job #:
Address: 20251 Century Blvd Suite 200	Due Date Requested:			
City: Germantown	TAT Requested (days): 5 day TAT			
State, Zip: MD, 20874				
Phone: ~~301-233-8230(Tel)~~ (412) 302-1624	PO #: ~~[illegible]~~			
Email: ~~Terry.Apanavage~~ Chris.Pike@tetratech.com	WO #: ~~[illegible]~~			
Project Name: ~~[illegible]~~ MRC MPE System	Project #: ~~[illegible]~~ 112IC04769-16			
Site: MRC, Maryland	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - (MOD) Project VOCs	VOCs - PP	pH	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	A	I	I	X	
DSP-7-081415	8-14-15	1105	G	Water				X	X		

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [signature]	Date/Time: 8-14-15 / 1230	Company: Tetra Tech	Received by: [signature]	Date/Time: 8/14/15 / 1615	Company: TestAmerica
Relinquished by: [signature]	Date/Time: 8/14/15 / 1700	Company: TestAmerica	Received by: Mathew Mugon	Date/Time: 8/15/15 940	Company: [signature]
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative **Login # : 543M**
Canton Facility

Client Tetra Tech Site Name _____ Cooler unpacked by: Heather Myers

Cooler Received on 8/15/15 Opened on 8/15/15

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A (CF +1.0 °C) Observed Cooler Temp. 1.8 °C Corrected Cooler Temp. 2.8 °C

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

☐ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1 (Yes) No
   -Were custody seals on the outside of the cooler(s) signed & dated? (Yes) No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No)
3. Shippers' packing slip attached to the cooler(s)? (Yes) No
4. Did custody papers accompany the sample(s)? (Yes) No
5. Were the custody papers relinquished & signed in the appropriate place? (Yes) No
6. Was/were the person(s) who collected the samples clearly identified on the COC? (Yes) No
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 correct bottle(s) used for the test(s) indicated? (Yes) No
10. Sufficient quantity received to perform indicated analyses? (Yes) No
11. Were sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# **HC432654**
12. Were VOAs on the COC? (Yes) No
13. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes (No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ 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 the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

9/14/2015 SAMPLING EVENT

ANALYTICAL REPORT

Job Number: 240-55376-1

Job Description: MRC

For:
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Pittsburgh, PA 15220-2745

Attention: Chris Pike



Approved for release.
John McFadden
Project Manager I
9/23/2015 4:35 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
09/23/2015

cc: Tony Apanavage
Samantha Brenner
Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: MRC

Report Number: 240-55376-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The sample was received on 9/15/2015 9:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4º C.

The following sample was listed on the Chain of Custody (COC); however, no sample was received: TRIP BLANK.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample PSP-8-091415 (240-55376-1) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The sample was analyzed on 09/16/2015.

The preservative used in the sample containers provided is not compatible with the Method 624 analytes requested. The following sample was received preserved with hydrochloric acid: PSP-8-091415 (240-55376-1). The requested target analyte list contains 2-chloroethyl vinyl ether and/or acrolein, which can degrade in an acidic medium.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH

Sample PSP-8-091415 (240-55376-1) was analyzed for pH in accordance with SM 4500 H+ B. The sample was analyzed on 09/15/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Instrument ID: A3UX9 Analysis Batch Number: 195200

Lab Sample ID: STD8260 240-195200/10 I Client Sample ID:

Date Analyzed: 08/27/15 23:28 Lab File ID: UX951831.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1,1,2-Trichloro-1,2,2-trifluoroethane	3.05	Poor chromatography	laveyt	08/28/15 11:03

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-55376-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-55376-1	PSP-8-091415	Water	09/14/2015 1430	09/15/2015 0945

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-55376-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-55376-1	**PSP-8-091415**					
pH		7.19		0.100	SU	4500 H+ B-2000

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-55376-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
pH	TAL CAN	SM 4500 H+ B-2000	

Lab References:

TAL CAN = TestAmerica Canton

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-55376-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
SM 4500 H+ B-2000	Nguyen, Diem	DTN

Client: Tetra Tech, Inc. Job Number: 240-55376-1

Client Sample ID: **PSP-8-091415**

Lab Sample ID: 240-55376-1 Date Sampled: 09/14/2015 1430
Client Matrix: Water Date Received: 09/15/2015 0945

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-197822	Instrument ID:	A3UX9
	N/A	Prep Batch:	N/A	Lab File ID:	UX952320.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/16/2015 2349			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84		78 - 125
4-Bromofluorobenzene (Surr)	89		61 - 120
Toluene-d8 (Surr)	86		80 - 120

General Chemistry

Client Sample ID: **PSP-8-091415**

Lab Sample ID: 240-55376-1 Date Sampled: 09/14/2015 1430
Client Matrix: Water Date Received: 09/15/2015 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
pH	7.19		SU	0.100	0.100	1.0	4500 H+ B-2000

Analysis Batch: 240-197563 Analysis Date: 09/15/2015 1426

Client: Tetra Tech, Inc. Job Number: 240-55376-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
240-55376-1	PSP-8-091415	84	86	89
MB 240-197822/5		84	86	85
LCS 240-197822/6		83	90	91
240-55404-D-1 MS		81	85	86

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	61-120

Client: Tetra Tech, Inc. Job Number: 240-55376-1

Method Blank - Batch: 240-197822

Method: 624
Preparation: N/A

Lab Sample ID:	MB 240-197822/5	Analysis Batch:	240-197822	Instrument ID:	A3UX9
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX952303.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/16/2015 1724	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84	78 - 125
4-Bromofluorobenzene (Surr)	85	61 - 120
Toluene-d8 (Surr)	86	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	91	61 - 120
Toluene-d8 (Surr)	90	80 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	61 - 120
Toluene-d8 (Surr)	85	80 - 120

Client: Tetra Tech, Inc. Job Number: 240-55376-1

Lab Control Sample - Batch: 240-197563

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-197563/2	Analysis Batch:	240-197563	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/15/2015 1105	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.15	6.190	101	97 - 103	

Duplicate - Batch: 240-197563

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-55367-M-2 DU	Analysis Batch:	240-197563	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	09/15/2015 1226	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	6.11	6.170	1	20	

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-55376-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.

Client: Tetra Tech, Inc. Job Number: 240-55376-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-197822					
LCS 240-197822/6	Lab Control Sample	T	Water	624	
MB 240-197822/5	Method Blank	T	Water	624	
240-55376-1	PSP-8-091415	T	Water	624	
240-55404-D-1 MS	Matrix Spike	T	Water	624	

Report Basis
T = Total

General Chemistry					
Analysis Batch:240-197563					
LCS 240-197563/2	Lab Control Sample	T	Water	4500 H+ B-2000	
240-55367-M-2 DU	Duplicate	T	Water	4500 H+ B-2000	
240-55376-1	PSP-8-091415	T	Water	4500 H+ B-2000	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-55376-1

Laboratory Chronicle

Lab ID: 240-55376-1 **Client ID: PSP-8-091415**

Sample Date/Time: 09/14/2015 14:30 Received Date/Time: 09/15/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-55376-B-1		240-197822		09/16/2015 23:49	1	TAL CAN	TJL1
A:4500 H+ B-2000	240-55376-D-1		240-197563		09/15/2015 14:26	1	TAL CAN	DTN

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-197822/5		240-197822		09/16/2015 17:24	1	TAL CAN	TJL1

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-197822/6		240-197822		09/16/2015 16:37	1	TAL CAN	TJL1
A:4500 H+ B-2000	LCS 240-197563/2		240-197563		09/15/2015 11:05	1	TAL CAN	DTN

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 09/15/2015 12:15 Received Date/Time: 09/15/2015 13:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-55404-D-1 MS		240-197822		09/17/2015 01:45	1	TAL CAN	TJL1

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 09/14/2015 13:30 Received Date/Time: 09/14/2015 20:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-55367-M-2 DU		240-197563		09/15/2015 12:26	1	TAL CAN	DTN

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_00025	12/19/15	06/19/15	MEOH, Lot 85233	50 mL	vm30241_00003	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00003	04/30/20		restek, Lot A0110589		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00020	10/22/15	04/22/15	MEOH, Lot 85233	100 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00213	09/02/15	08/26/15	MEOH, Lot na	2 mL	vm50ss_stk_00065	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00065	09/08/15	03/08/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00113	09/01/15	08/25/15	MEOH, Lot na	3 mL	VMACROLSTD_00028	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00028	09/30/15	07/31/15	MEOH, Lot 147358	20 mL	VM568720S_00008	250 uL	Acrolein	250 ug/mL
..VM568720S_00008	09/30/15		restek, Lot A0111005		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00115	09/16/15	09/09/15	MEOH, Lot na	3 mL	VMACROLSTD_00029	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00029	09/30/15	09/01/15	MEOH, Lot 147358	20 mL	VM568720_00008	250 uL	Acrolein	250 ug/mL
..VM568720_00008	09/30/15		restek, Lot A0111006		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00101	09/18/15	09/11/15	MEOH, Lot NA	2 mL	VMFASA_00019	2 mL	Acrolein	250 ug/mL
.VMFASA_00019	09/30/15	07/29/15	MEOH, Lot 147358	100 mL	VM568720S_00008	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00008	09/30/15		restek, Lot A0111005		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00114	09/18/15	09/11/15	MEOH, Lot NA	2 mL	VMFASG_00033	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00033	09/29/15	08/29/15	MEOH, Lot 147358	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00116	09/18/15	09/11/15	MEOH, Lot n/a	2 mL	VMRFASP_00022	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
.VMRFASP_00022	10/31/15	07/28/15	MEOH, Lot 147358	100 mL	VM567641S_00007	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM569723S_00002	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM569723S_00002	03/31/18		Restek, Lot A0110013		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
VMRGAS_00115	08/28/15	08/21/15	MEOH, Lot 147358	10 mL	vm569722_00002	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00002	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00118	09/21/15	09/14/15	MEOH, Lot 147358	10 mL	vm569722_00002	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	50 ug/mL
.vm569722_00002	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00144	08/27/15	08/20/15	MEOH, Lot NA	1 mL	VMRPRIM_00012	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
.VMRPRIM_00012	08/31/15	05/27/15	MEOH, Lot +161620000085233JB	50 mL	VM567641_00013	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,3-Trichlorobenzene	50 ug/mL
							1,2,3-Trichloropropane	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dibromo-3-Chloropropane	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							2,2-Dichloropropane	50 ug/mL
							2-Chlorotoluene	50 ug/mL
							2-Methyl-2-propanol	500 ug/mL
							4-Chlorotoluene	50 ug/mL
							4-Isopropyltoluene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromobenzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dibromomethane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethyl ether	50 ug/mL
							Ethyl methacrylate	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexachlorobutadiene	50 ug/mL
							Hexane	50 ug/mL
							Iodomethane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							n-Butylbenzene	50 ug/mL
							N-Propylbenzene	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							sec-Butylbenzene	50 ug/mL
							Styrene	50 ug/mL
							tert-Butylbenzene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							trans-1,4-Dichloro-2-butene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00015	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00001	0.5 mL	Vinyl acetate	50 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,3-Trichlorobenzene	2000 ug/mL
							1,2,3-Trichloropropane	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dibromo-3-Chloropropane	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							2,2-Dichloropropane	2000 ug/mL
							2-Chlorotoluene	2000 ug/mL
							2-Methyl-2-propanol	20000 ug/mL
							4-Chlorotoluene	2000 ug/mL
							4-Isopropyltoluene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromobenzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	2000 ug/mL
							Dibromomethane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethyl ether	2000 ug/mL
							Ethyl methacrylate	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexachlorobutadiene	2000 ug/mL
							Hexane	2000 ug/mL
							Iodomethane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							n-Butylbenzene	2000 ug/mL
							N-Propylbenzene	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							sec-Butylbenzene	2000 ug/mL
							Styrene	2000 ug/mL
							tert-Butylbenzene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							trans-1,4-Dichloro-2-butene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00015	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM569724_00001	08/31/15		Restek, Lot A0109190		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VMRPRIMW_00147	09/16/15	09/09/15	MEOH, Lot NA	1 mL	VMRPRIM_00013	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00013	10/31/15	09/01/15	MEOH, Lot 147358	50 mL	VM567641_00013	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCPH7_00073	11/03/16		Fisher Scientific, Lot 147660		(Purchased Reagent)		pH	7 SU
WCPHLCS_00010	08/31/16		Phenova, Lot 8137-15		(Purchased Reagent)		pH	6.15 SU

Certification Summary

Client: Tetra Tech, Inc.
Project/Site: MRC

TestAmerica Job ID: 240-55376-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	Kentucky (WW)	State Program	4	98016
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Oregon	NELAP	10	4062
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	T104704517-15-5
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
PSP-8-091415	240-55376-1	84	86	89
	MB 240-197822/5	84	86	85
	LCS 240-197822/6	83	90	91
	240-55404-D-1 MS	81	85	86

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	61-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Lab File ID: UX952303.D Lab Sample ID: MB 240-197822/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX9 Date Analyzed: 09/16/2015 17:24

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 240-197822/6	UX952301.D	09/16/2015 16:37
PSP-8-091415	240-55376-1	UX952320.D	09/16/2015 23:49
	240-55404-D-1 MS	UX952325.D	09/17/2015 01:45

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Lab File ID: BFB3078.D BFB Injection Date: 08/27/2015

Instrument ID: A3UX9 BFB Injection Time: 19:38

Analysis Batch No.: 195200

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.5	
75	30.0 - 60.0 % of mass 95	46.6	
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	0.4	(0.6)1
174	50.0 - 120.00 % of mass 95	72.9	
175	5.0 - 9.0 % of mass 174	5.1	(7.0)1
176	95.0 - 101.0 % of mass 174	69.8	(95.8)1
177	5.0 - 9.0 % of mass 176	4.1	(5.9)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 240-195200/6	UX951827.D	08/27/2015	20:26
	STD8260 240-195200/7	UX951828.D	08/27/2015	21:11
	ICIS 240-195200/8	UX951829.D	08/27/2015	21:56
	STD8260 240-195200/9	UX951830.D	08/27/2015	22:42
	STD8260 240-195200/10	UX951831.D	08/27/2015	23:28
	STD8260 240-195200/11	UX951832.D	08/27/2015	23:51

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Lab File ID: BFB3101.D BFB Injection Date: 09/16/2015

Instrument ID: A3UX9 BFB Injection Time: 15:36

Analysis Batch No.: 197822

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.1	
75	30.0 - 60.0 % of mass 95	45.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.3	(0.4)1
174	50.0 - 120.00 % of mass 95	73.4	
175	5.0 - 9.0 % of mass 174	5.0	(6.9)1
176	95.0 - 101.0 % of mass 174	69.8	(95.1)1
177	5.0 - 9.0 % of mass 176	4.7	(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 240-197822/3	UX952300.D	09/16/2015	16:16
	LCS 240-197822/6	UX952301.D	09/16/2015	16:37
	CCV 240-197822/4	UX952302.D	09/16/2015	17:00
	MB 240-197822/5	UX952303.D	09/16/2015	17:24
PSP-8-091415	240-55376-1	UX952320.D	09/16/2015	23:49
	240-55404-D-1 MS	UX952325.D	09/17/2015	01:45

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Sample No.: ICIS 240-195200/8 Date Analyzed: 08/27/2015 21:56

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX951829.D Heated Purge: (Y/N) N

Calibration ID: 30401

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		899073	5.41	666255	8.08	288318	10.32
UPPER LIMIT		1798146	5.91	1332510	8.58	576636	10.82
LOWER LIMIT		449537	4.91	333128	7.58	144159	9.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 240-197822/3		622197	5.41	473516	8.08	213704	10.32

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 624

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Sample No.: CCVIS 240-197822/3 Date Analyzed: 09/16/2015 16:16

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX952300.D Heated Purge: (Y/N) N

Calibration ID: 30404

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		622197	5.41	473516	8.08	213704	10.32
UPPER LIMIT		1244394	5.91	947032	8.58	427408	10.82
LOWER LIMIT		311099	4.91	236758	7.58	106852	9.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-197822/6		632393	5.40	474054	8.08	218414	10.31
CCV 240-197822/4		610431	5.40	459577	8.08	202399	10.31
MB 240-197822/5		606349	5.40	461875	8.08	199364	10.31
240-55376-1	PSP-8-091415	604290	5.40	455195	8.08	197188	10.31
240-55404-D-1 MS		630748	5.41	482028	8.08	226432	10.32

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-55376-1

SDG No.:

Client Sample ID: PSP-8-091415 | Lab Sample ID: 240-55376-1

Matrix: Water | Lab File ID: UX952320.D

Analysis Method: 624 | Date Collected: 09/14/2015 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2015 23:49

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.: 197822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-55376-1

SDG No.:

Client Sample ID: PSP-8-091415 | Lab Sample ID: 240-55376-1

Matrix: Water | Lab File ID: UX952320.D

Analysis Method: 624 | Date Collected: 09/14/2015 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2015 23:49

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.: 197822 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		78-125
460-00-4	4-Bromofluorobenzene (Surr)	89		61-120
2037-26-5	Toluene-d8 (Surr)	86		80-120

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-55376-1 Analy Batch No.: 195200

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 20:26 Calibration End Date: 08/27/2015 23:51 Calibration ID: 30401

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-195200/11	UX951832.D
Level 2	STD8260 240-195200/10	UX951831.D
Level 3	STD8260 240-195200/9	UX951830.D
Level 4	ICIS 240-195200/8	UX951829.D
Level 5	STD8260 240-195200/7	UX951828.D
Level 6	STD8260 240-195200/6	UX951827.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	+++++ 0.3909	0.3367	0.3725	0.3422	0.3893	Ave		0.3663				7.0		35.0			
Chloromethane	0.4757 0.5388	0.5279	0.5883	0.5348	0.5336	Ave		0.5332				6.7		35.0			
Vinyl chloride	0.4696 0.5914	0.4692	0.6087	0.5485	0.5658	Ave		0.5422				11.1		35.0			
Bromomethane	+++++ 0.3287	0.2329	0.3417	0.3119	0.3177	Ave		0.3066				13.9		35.0			
Chloroethane	0.3103 0.3833	0.3416	0.4037	0.3644	0.3819	Ave		0.3642				9.2		35.0			
Dichlorofluoromethane	0.8611 0.7877	0.6773	0.8503	0.7686	0.7942	Ave		0.7899				8.4		35.0			
Trichlorofluoromethane	0.2721 0.5506	0.3089	0.5174	0.4943	0.5326	Ave		0.4460				27.4		35.0			
Ethyl ether	0.3923 0.3342	0.3725	0.3229	0.3398	0.3378	Ave		0.3499				7.6		35.0			
Acrolein	+++++ 0.0361	0.0506	0.0375	0.0340	0.0337	Ave		0.0384				18.3		35.0			
Acetone	+++++ 0.0989	0.2160	0.1166	0.1092	0.1059	Lin1	0.2471	0.1000							0.9990		0.9900
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.3501	0.2157	0.3037	0.3083	0.3416	Ave		0.3039				17.5		35.0			
1,1-Dichloroethene	0.6847 0.7017	0.5610	0.6651	0.6473	0.7103	Ave		0.6617				8.2		35.0			
Iodomethane	0.5004 0.5599	0.4987	0.5501	0.5315	0.5713	Ave		0.5353				5.7		35.0			
Carbon disulfide	+++++ 1.5648	1.2390	1.4213	1.4417	1.5622	Ave		1.4458				9.2		35.0			
Methyl acetate	0.3019 0.2786	0.3226	0.2744	0.2848	0.2974	Ave		0.2933				6.1		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-55376-1 Analy Batch No.: 195200

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 20:26 Calibration End Date: 08/27/2015 23:51 Calibration ID: 30401

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								
Methylene Chloride	+++++ 0.5553	2.3675	0.7336	0.6017	0.5907	Lin1	1.8353	0.5339							0.9990		0.9900
2-Methyl-2-propanol	0.0419 0.0325	0.0389	0.0349	0.0330	0.0351	Ave		0.0360				10.2		35.0			
Acrylonitrile	0.1452 0.1518	0.1683	0.1494	0.1540	0.1607	Ave		0.1549				5.4		35.0			
Methyl tert-butyl ether	1.0715 1.1326	1.1257	1.1223	1.0995	1.1808	Ave		1.1221				3.2		35.0			
trans-1,2-Dichloroethene	0.5110 0.5284	0.5013	0.5059	0.5166	0.5367	Ave		0.5167				2.6		35.0			
Hexane	0.3078 0.3569	0.3126	0.3253	0.3529	0.3534	Ave		0.3348				6.6		35.0			
1,1-Dichloroethane	0.5578 0.6530	0.6622	0.6209	0.6320	0.6727	Ave		0.6331				6.6		35.0			
Vinyl acetate	0.4926 0.5304	0.4800	0.4685	0.4754	0.5225	Ave		0.4949				5.2		35.0			
2-Butanone (MEK)	0.1750 0.1580	0.1800	0.1558	0.1641	0.1727	Ave		0.1676				5.8		35.0			
cis-1,2-Dichloroethene	0.4965 0.5275	0.5248	0.4992	0.5152	0.5405	Ave		0.5173				3.3		35.0			
2,2-Dichloropropane	0.2343 0.2523	0.2520	0.2432	0.2478	0.2593	Ave		0.2481				3.5		35.0			
Chlorobromomethane	0.3009 0.3534	0.2961	0.2857	0.3033	0.3153	Ave		0.3091				7.7		35.0			
Chloroform	0.6517 0.6068	0.6631	0.5949	0.5979	0.6229	Ave		0.6229				4.6		35.0			
1,1,1-Trichloroethane	0.3363 0.3666	0.3344	0.3360	0.3501	0.3676	Ave		0.3485				4.4		35.0			
Cyclohexane	+++++ 0.3625	0.2887	0.3235	0.3277	0.3447	Ave		0.3294				8.3		35.0			
1,1-Dichloropropene	0.4661 0.4601	0.4220	0.4388	0.4543	0.4707	Ave		0.4520				4.1		35.0			
Carbon tetrachloride	0.2602 0.2882	0.2414	0.2545	0.2713	0.2816	Ave		0.2662				6.6		35.0			
Isobutyl alcohol	0.0127 0.0126	0.0117	0.0122	0.0121	0.0138	Ave		0.0125				5.6		35.0			
Benzene	1.7542 1.6281	1.6517	1.5590	1.5885	1.6829	Ave		1.6441				4.2		35.0			
1,2-Dichloroethane	0.4048 0.4389	0.4720	0.4283	0.4256	0.4450	Ave		0.4358				5.2		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-55376-1 Analy Batch No.: 195200

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 20:26 Calibration End Date: 08/27/2015 23:51 Calibration ID: 30401

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								
Trichloroethene	0.3663 0.3740	0.3320	0.3580	0.3724	0.3824	Ave		0.3642				4.9		35.0			
Methylcyclohexane	0.3372 0.4193	0.3773	0.3673	0.4108	0.3903	Ave		0.3837				7.8		35.0			
1,2-Dichloropropane	0.4054 0.3919	0.3831	0.3756	0.3713	0.3973	Ave		0.3874				3.4		35.0			
Dibromomethane	0.2074 0.2206	0.1970	0.2102	0.2258	0.2346	Ave		0.2159				6.3		35.0			
Dichlorobromomethane	0.4539 0.4855	0.4602	0.4445	0.4587	0.4986	Ave		0.4669				4.4		35.0			
2-Chloroethyl vinyl ether	0.1862 0.2735	0.2536	0.2557	0.2603	0.2757	Ave		0.2508				13.1		35.0			
cis-1,3-Dichloropropene	0.5799 0.6479	0.5560	0.5969	0.6227	0.6292	Ave		0.6054				5.6		35.0			
4-Methyl-2-pentanone (MIBK)	0.2767 0.3483	0.3160	0.3352	0.3354	0.3561	Ave		0.3279				8.7		35.0			
Toluene	2.7565 2.2734	2.3413	2.1137	2.2868	2.3262	Ave		2.3496				9.2		35.0			
trans-1,3-Dichloropropene	0.5985 0.7367	0.6246	0.6254	0.6937	0.7348	Ave		0.6689				9.1		35.0			
Ethyl methacrylate	0.6059 0.7192	0.6225	0.6040	0.6680	0.7112	Ave		0.6551				7.9		35.0			
1,1,2-Trichloroethane	0.4501 0.4665	0.4627	0.4404	0.4713	0.4703	Ave		0.4602				2.7		35.0			
Tetrachloroethene	0.4738 0.4267	0.3606	0.3955	0.4203	0.4440	Ave		0.4202				9.3		35.0			
1,3-Dichloropropane	0.8016 0.8772	0.8110	0.8075	0.8630	0.8963	Ave		0.8428				4.9		35.0			
2-Hexanone	0.2368 0.3322	0.2776	0.2887	0.3149	0.3423	Ave		0.2987				13.1		35.0			
Chlorodibromomethane	0.3934 0.4663	0.3944	0.3948	0.4492	0.4613	Ave		0.4266				8.4		35.0			
Ethylene Dibromide	0.3882 0.4644	0.4467	0.4124	0.4623	0.4843	Ave		0.4430				8.1		35.0			
Chlorobenzene	1.6748 1.4280	1.5039	1.3254	1.4254	1.4700	Ave		1.4713				7.9		35.0			
1,1,1,2-Tetrachloroethane	0.3642 0.4771	0.4151	0.4295	0.4526	0.4783	Ave		0.4361				9.9		35.0			
Ethylbenzene	0.7102 0.7589	0.7738	0.6892	0.7437	0.7590	Ave		0.7391				4.4		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-55376-1 Analy Batch No.: 195200

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 20:26 Calibration End Date: 08/27/2015 23:51 Calibration ID: 30401

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	1.0052 0.9435	0.9013	0.8535	0.8959	0.9300	Ave		0.9216				5.6		35.0			
o-Xylene	0.9283 0.9500	0.8698	0.8381	0.8916	0.9354	Ave		0.9022				4.8		35.0			
Styrene	2.0123 1.7636	1.8650	1.6137	1.6774	1.7429	Ave		1.7792				8.0		35.0			
Bromoform	+++++ 0.3106	0.2158	0.2549	0.2986	0.3035	Ave		0.2767				14.6		35.0			
Isopropylbenzene	1.9675 2.1359	1.7198	1.9053	2.0524	2.1112	Ave		1.9820				7.8		35.0			
1,1,2,2-Tetrachloroethane	1.4019 1.4031	1.3011	1.3545	1.5748	1.5622	Ave		1.4329				7.8		35.0			
Bromobenzene	1.4955 1.2081	1.3109	1.1838	1.2884	1.3516	Ave		1.3064				8.6		35.0			
1,2,3-Trichloropropane	0.3979 0.4613	0.4698	0.4490	0.5042	0.5272	Ave		0.4682				9.6		35.0			
trans-1,4-Dichloro-2-butene	+++++ 0.4171	0.3188	0.3821	0.4321	0.4606	Ave		0.4021				13.6		35.0			
N-Propylbenzene	1.1220 1.1866	1.0848	1.1259	1.2306	1.2774	Ave		1.1712				6.3		35.0			
2-Chlorotoluene	0.9538 1.0538	1.0132	1.0436	1.1792	1.1725	Ave		1.0693				8.4		35.0			
1,3,5-Trimethylbenzene	3.1694 3.6446	3.2868	3.5247	3.8731	4.0253	Ave		3.5873				9.2		35.0			
4-Chlorotoluene	1.0621 1.1729	1.0635	1.1263	1.2156	1.2627	Ave		1.1505				7.1		35.0			
tert-Butylbenzene	2.8182 3.4287	3.1634	3.3142	3.3095	3.3513	Ave		3.2309				6.8		35.0			
1,2,4-Trimethylbenzene	3.9028 3.8988	3.5551	3.8095	4.0355	4.2207	Ave		3.9038				5.7		35.0			
sec-Butylbenzene	1.1083 0.8958	0.8740	0.8558	0.9266	0.9344	Ave		0.9325				9.8		35.0			
1,3-Dichlorobenzene	2.5750 2.2107	2.3971	2.1776	2.2241	2.3422	Ave		2.3211				6.5		35.0			
4-Isopropyltoluene	3.8845 3.7978	3.5683	3.5932	3.9225	4.0948	Ave		3.8102				5.3		35.0			
1,4-Dichlorobenzene	2.7391 2.2989	2.5962	2.3031	2.3248	2.4263	Ave		2.4481				7.4		35.0			
n-Butylbenzene	4.1723 3.3275	3.2545	3.1148	3.2085	3.5653	Ave		3.4405				11.3		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-55376-1 Analy Batch No.: 195200

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 20:26 Calibration End Date: 08/27/2015 23:51 Calibration ID: 30401

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	2.2951 2.1746	2.2328	2.2016	2.2049	2.3409	Ave		2.2417				2.8		35.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.2860	0.1414	0.2612	0.2536	0.3231	Ave		0.2530				26.9		35.0			
1,2,4-Trichlorobenzene	1.4288 1.2663	1.4592	1.2362	1.2249	1.3885	Ave		1.3340				7.8		35.0			
Hexachlorobutadiene	1.2738 0.5102	0.9117	0.5654	0.5353	0.5751	Lin1	0.3847	0.5242							0.9970		0.9900
Naphthalene	4.4666 4.0001	4.2886	3.9132	3.8995	4.4139	Ave		4.1637				6.2		35.0			
1,2,3-Trichlorobenzene	1.5165 1.1830	1.2137	1.1489	1.1615	1.2658	Ave		1.2482				11.0		35.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.3535	0.4174	0.3411	0.3871	0.3631	Ave		0.3724				8.1		35.0			
Toluene-d8 (Surr)	+++++ 1.8839	1.9288	1.7404	1.8917	1.9229	Ave		1.8735				4.1		35.0			
4-Bromofluorobenzene (Surr)	+++++ 0.7077	0.6999	0.6649	0.6710	0.6937	Ave		0.6874				2.7		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-55376-1 Analy Batch No.: 195200

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 20:26 Calibration End Date: 08/27/2015 23:51 Calibration ID: 30401

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-195200/11	UX951832.D
Level 2	STD8260 240-195200/10	UX951831.D
Level 3	STD8260 240-195200/9	UX951830.D
Level 4	ICIS 240-195200/8	UX951829.D
Level 5	STD8260 240-195200/7	UX951828.D
Level 6	STD8260 240-195200/6	UX951827.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 1378645	15016	154672	307661	663366	+++++ 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	10165 1900448	23546	244232	480786	909310	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	10034 2085863	20927	252733	493101	964106	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	+++++ 1159199	10385	141881	280392	541435	+++++ 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	6631 1351808	15235	167620	327656	650787	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	18401 2778126	30206	353026	691010	1353356	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	5815 1941960	13779	214806	444391	907604	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl ether	FB	Ave	8383 1178811	16613	134080	305549	575675	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	+++++ 637404	11285	77914	152825	286805	+++++ 400	5.00	50.0	100	200
Acetone	FB	Lin1	+++++ 697705	19270	96811	196279	360975	+++++ 160	2.00	20.0	40.0	80.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 1234702	9619	126104	277167	582109	+++++ 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethene	FB	Ave	14632 2474692	25021	276132	581948	1210267	0.500 80.0	1.00	10.0	20.0	40.0
Iodomethane	FB	Ave	10693 1974752	22241	228408	477839	973496	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	+++++ 5518845	55260	590103	1296224	2662020	+++++ 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	32256 4913777	71930	569701	1280228	2533517	2.50 400	5.00	50.0	100	200
Methylene Chloride	FB	Lin1	+++++ 1958642	105590	304586	540982	1006561	+++++ 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-55376-1 Analy Batch No.: 195200

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 20:26 Calibration End Date: 08/27/2015 23:51 Calibration ID: 30401

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Methyl-2-propanol	FB	Ave	8964 1144600	17364	144761	297047	597296	5.00 800	10.0	100	200	400
Acrylonitrile	FB	Ave	31031 5354710	75042	620186	1384126	2739044	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	22898 3994697	50204	465974	988508	2012106	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,2-Dichloroethene	FB	Ave	10920 1863498	22357	210052	464478	914591	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	6578 1258798	13940	135070	317263	602163	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	11920 2303098	29535	257778	568246	1146250	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	10526 1870554	21408	194494	427436	890295	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	7481 1114447	16057	129406	295098	588478	1.00 160	2.00	20.0	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	10610 1860456	23405	207249	463205	921002	0.500 80.0	1.00	10.0	20.0	40.0
2,2-Dichloropropane	FB	Ave	5007 889896	11237	100951	222808	441894	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	6429 1246370	13207	118625	272700	537333	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	13927 2140264	29574	247008	537577	1061403	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	7187 1292928	14916	139499	314797	626308	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	+++++ 1278344	12876	134291	294612	587368	+++++ 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	9960 1622620	18820	182199	408424	801998	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5560 1016471	10766	105649	243944	479819	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	6796 1114444	13099	126857	272553	586492	12.5 2000	25.0	250	500	1000
Benzene	FB	Ave	37486 5742159	73664	647274	1428215	2867692	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	8650 1548060	21049	177837	382668	758194	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	7828 1318924	14805	148648	334817	651618	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	7205 1478672	16829	152506	369305	665121	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-55376-1 Analy Batch No.: 195200

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 20:26 Calibration End Date: 08/27/2015 23:51 Calibration ID: 30401

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2-Dichloropropane	FB	Ave	8663 1382035	17086	155936	333804	676912	0.500 80.0	1.00	10.0	20.0	40.0
Dibromomethane	FB	Ave	4431 778138	8786	87253	202973	399707	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	9700 1712235	20526	184559	412402	849590	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	7960 1929021	22623	212315	468123	939414	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	12393 2285246	24798	247830	559853	1072103	0.500 80.0	1.00	10.0	20.0	40.0
4-Methyl-2-pentanone (MIBK)	FB	Ave	11824 2456986	28186	278355	603059	1213533	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	44718 6049017	78865	682326	1523600	2952950	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	9709 1960177	21039	201887	462159	932741	0.500 80.0	1.00	10.0	20.0	40.0
Ethyl methacrylate	CBZ	Ave	9829 1913688	20970	194983	445071	902825	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	7302 1241291	15587	142155	313998	597040	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	7686 1135345	12147	127688	280045	563605	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	13005 2333984	27320	260682	574989	1137789	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	7684 1767865	18699	186396	419562	869132	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	6382 1240795	13284	127463	299264	585640	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	6298 1235805	15046	133122	307980	614764	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	27170 3799679	50658	427855	949683	1866105	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	5909 1269390	13982	138646	301539	607151	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	11522 2019251	26066	222493	495461	963535	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	16307 2510521	30360	275521	596874	1180572	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	15060 2527879	29300	270540	594046	1187416	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	32646 4692678	62823	520910	1117557	2212516	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-55376-1 Analy Batch No.: 195200

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 20:26 Calibration End Date: 08/27/2015 23:51 Calibration ID: 30401

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Bromoform	CBZ	Ave	+++++ 826463	7268	82282	198968	385247	+++++ 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	31919 5683349	57932	615044	1367440	2679990	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	9946 1834712	19292	198621	454057	854050	0.500 80.0	1.00	10.0	20.0	40.0
Bromobenzene	DCB	Ave	10610 1579720	19438	173596	371465	738898	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichloropropane	DCB	Ave	2823 603244	6966	65840	145377	288208	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,4-Dichloro-2-butene	DCB	Ave	+++++ 545364	4727	56032	124574	251791	+++++ 80.0	1.00	10.0	20.0	40.0
N-Propylbenzene	DCB	Ave	7960 1551603	16086	165102	354796	698360	0.500 80.0	1.00	10.0	20.0	40.0
2-Chlorotoluene	DCB	Ave	6767 1377898	15023	153030	339991	640994	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	22486 4765729	48736	516863	1116679	2200596	0.500 80.0	1.00	10.0	20.0	40.0
4-Chlorotoluene	DCB	Ave	7535 1533680	15769	165157	350477	690318	0.500 80.0	1.00	10.0	20.0	40.0
tert-Butylbenzene	DCB	Ave	19994 4483447	46906	485990	954178	1832118	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	27689 5098090	52715	558627	1163515	2307465	0.500 80.0	1.00	10.0	20.0	40.0
sec-Butylbenzene	DCB	Ave	7863 1171309	12960	125498	267166	510854	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	18269 2890661	35544	319328	641254	1280478	0.500 80.0	1.00	10.0	20.0	40.0
4-Isopropyltoluene	DCB	Ave	27559 4966002	52910	526900	1130914	2238594	0.500 80.0	1.00	10.0	20.0	40.0
1,4-Dichlorobenzene	DCB	Ave	19433 3005992	38496	337730	670281	1326456	0.500 80.0	1.00	10.0	20.0	40.0
n-Butylbenzene	DCB	Ave	29601 4351077	48258	456748	925056	1949161	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	16283 2843578	33108	322846	635708	1279756	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dibromo-3-Chloropropane	DCB	Ave	+++++ 373971	2096	38295	73119	176617	+++++ 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	10137 1655854	21637	181271	353175	759091	0.500 80.0	1.00	10.0	20.0	40.0
Hexachlorobutadiene	DCB	Lin1	9037 667112	13519	82916	154333	314421	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-55376-1 Analy Batch No.: 195200

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 08/27/2015 20:26 Calibration End Date: 08/27/2015 23:51 Calibration ID: 30401

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Naphthalene	DCB	Ave	31689 5230566	63591	573828	1124298	2413079	0.500 80.0	1.00	10.0	20.0	40.0
1,2,3-Trichlorobenzene	DCB	Ave	10759 1546956	17997	168473	334881	692003	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 1246889	18615	141636	348041	618676	+++++ 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 5012749	64971	561827	1260364	2440918	+++++ 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	+++++ 1883032	23575	214626	447027	880556	+++++ 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Lab Sample ID: CCVIS 240-197822/3 Calibration Date: 09/16/2015 16:16

Instrument ID: A3UX9 Calib Start Date: 08/27/2015 20:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2015 23:51

Lab File ID: UX952300.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	0.3663	0.3572		0.0195	0.0200	-2.5	
Chloromethane	Ave	0.5332	0.5209		0.0195	0.0200	-2.3	99.0
Vinyl chloride	Ave	0.5422	0.5708		0.0211	0.0200	5.3	96.0
Bromomethane	Ave	0.3066	0.3030		0.0198	0.0200	-1.2	86.0
Chloroethane	Ave	0.3642	0.3648		0.0200	0.0200	0.2	62.0
Dichlorofluoromethane	Ave	0.7899	0.7782		0.0197	0.0200	-1.5	
Trichlorofluoromethane	Ave	0.4460	0.5387		0.0242	0.0200	20.8	52.0
Ethyl ether	Ave	0.3499	0.3442		0.0197	0.0200	-1.6	
Acrolein	Ave	0.0384	0.0314		0.0818	0.100	-18.2	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3039	0.3009		0.0198	0.0200	-1.0	
1,1-Dichloroethene	Ave	0.6617	0.6285		0.0190	0.0200	-5.0	49.0
Acetone	Lin1	0.1293	0.1174		0.0445	0.0400	11.3	
Iodomethane	Ave	0.5353	0.5097		0.0190	0.0200	-4.8	
Carbon disulfide	Ave	1.446	1.313		0.0182	0.0200	-9.2	
Methyl acetate	Ave	0.2933	0.3123		0.106	0.100	6.5	
Methylene Chloride	Lin1	0.9698	0.5415		0.0168	0.0200	-15.8	39.0
2-Methyl-2-propanol	Ave	0.0360	0.0420		0.233	0.200	16.4	
Acrylonitrile	Ave	0.1549	0.1679		0.217	0.200	8.4	
Methyl tert-butyl ether	Ave	1.122	1.195		0.0213	0.0200	6.5	
trans-1,2-Dichloroethene	Ave	0.5167	0.5024		0.0194	0.0200	-2.8	30.0
Hexane	Ave	0.3348	0.3266		0.0195	0.0200	-2.5	
1,1-Dichloroethane	Ave	0.6331	0.6599		0.0208	0.0200	4.2	27.0
Vinyl acetate	Ave	0.4949	0.5645		0.0228	0.0200	14.1	
2-Butanone (MEK)	Ave	0.1676	0.1791		0.0427	0.0400	6.8	
cis-1,2-Dichloroethene	Ave	0.5173	0.5298		0.0205	0.0200	2.4	
2,2-Dichloropropane	Ave	0.2481	0.2493		0.0201	0.0200	0.5	
Chlorobromomethane	Ave	0.3091	0.3480		0.0225	0.0200	12.6	
Chloroform	Ave	0.6229	0.6157		0.0198	0.0200	-1.2	33.0
1,1,1-Trichloroethane	Ave	0.3485	0.3868		0.0222	0.0200	11.0	25.0
Cyclohexane	Ave	0.3294	0.4096		0.0249	0.0200	24.3	
1,1-Dichloropropene	Ave	0.4520	0.4680		0.0207	0.0200	3.5	
Carbon tetrachloride	Ave	0.2662	0.3043		0.0229	0.0200	14.3	27.0
Isobutyl alcohol	Ave	0.0125	0.0136		0.543	0.500	8.6	
1,2-Dichloroethane	Ave	0.4358	0.4672		0.0214	0.0200	7.2	32.0
Benzene	Ave	1.644	1.665		0.0203	0.0200	1.3	36.0
Trichloroethene	Ave	0.3642	0.3856		0.0212	0.0200	5.9	33.0
Methylcyclohexane	Ave	0.3837	0.4127		0.0215	0.0200	7.6	
1,2-Dichloropropane	Ave	0.3874	0.3887		0.0201	0.0200	0.3	66.0
Dibromomethane	Ave	0.2159	0.2340		0.0217	0.0200	8.4	
Dichlorobromomethane	Ave	0.4669	0.4758		0.0204	0.0200	1.9	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Lab Sample ID: CCVIS 240-197822/3 Calibration Date: 09/16/2015 16:16

Instrument ID: A3UX9 Calib Start Date: 08/27/2015 20:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2015 23:51

Lab File ID: UX952300.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	0.2508	0.2924		0.0466	0.0400	16.6	99.0
cis-1,3-Dichloropropene	Ave	0.6054	0.6420		0.0212	0.0200	6.0	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3279	0.3812		0.0465	0.0400	16.2	
Toluene	Ave	2.350	2.262		0.0193	0.0200	-3.7	26.0
trans-1,3-Dichloropropene	Ave	0.6689	0.7335		0.0219	0.0200	9.6	50.0
Ethyl methacrylate	Ave	0.6551	0.7046		0.0215	0.0200	7.5	
1,1,2-Trichloroethane	Ave	0.4602	0.4640		0.0202	0.0200	0.8	29.0
1,3-Dichloropropane	Ave	0.8428	0.8866		0.0210	0.0200	5.2	
Tetrachloroethene	Ave	0.4202	0.4216		0.0201	0.0200	0.3	26.0
2-Hexanone	Ave	0.2987	0.3362		0.0450	0.0400	12.5	
Chlorodibromomethane	Ave	0.4266	0.4472		0.0210	0.0200	4.8	33.0
Ethylene Dibromide	Ave	0.4430	0.4833		0.0218	0.0200	9.1	
Chlorobenzene	Ave	1.471	1.432		0.0195	0.0200	-2.7	34.0
1,1,1,2-Tetrachloroethane	Ave	0.4361	0.4656		0.0214	0.0200	6.8	
Ethylbenzene	Ave	0.7391	0.7329		0.0198	0.0200	-0.8	41.0
m-Xylene & p-Xylene	Ave	0.9216	0.9354		0.0203	0.0200	1.5	
o-Xylene	Ave	0.9022	0.9198		0.0204	0.0200	1.9	
Styrene	Ave	1.779	1.675		0.0188	0.0200	-5.9	
Bromoform	Ave	0.2767	0.3064		0.0222	0.0200	10.8	29.0
Isopropylbenzene	Ave	1.982	2.049		0.0207	0.0200	3.4	
1,1,2,2-Tetrachloroethane	Ave	1.433	1.526		0.0213	0.0200	6.5	39.0
Bromobenzene	Ave	1.306	1.259		0.0193	0.0200	-3.6	
1,2,3-Trichloropropane	Ave	0.4682	0.4933		0.0211	0.0200	5.4	
trans-1,4-Dichloro-2-butene	Ave	0.4021	0.4380		0.0218	0.0200	8.9	
N-Propylbenzene	Ave	1.171	1.192		0.0204	0.0200	1.8	
2-Chlorotoluene	Ave	1.069	1.104		0.0206	0.0200	3.2	
1,3,5-Trimethylbenzene	Ave	3.587	3.644		0.0203	0.0200	1.6	
4-Chlorotoluene	Ave	1.151	1.154		0.0201	0.0200	0.3	
tert-Butylbenzene	Ave	3.231	3.128		0.0194	0.0200	-3.2	
1,2,4-Trimethylbenzene	Ave	3.904	3.917		0.0201	0.0200	0.3	
sec-Butylbenzene	Ave	0.9325	0.8297		0.0178	0.0200	-11.0	
1,3-Dichlorobenzene	Ave	2.321	2.168		0.0187	0.0200	-6.6	27.0
4-Isopropyltoluene	Ave	3.810	3.600		0.0189	0.0200	-5.5	
1,4-Dichlorobenzene	Ave	2.448	2.298		0.0188	0.0200	-6.1	37.0
n-Butylbenzene	Ave	3.440	3.043		0.0177	0.0200	-11.6	
1,2-Dichlorobenzene	Ave	2.242	2.203		0.0197	0.0200	-1.7	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.2530	0.3018		0.0239	0.0200	19.3	
1,2,4-Trichlorobenzene	Ave	1.334	1.213		0.0182	0.0200	-9.1	
Hexachlorobutadiene	Lin1		0.4810		0.0176	0.0200	-11.9	
Naphthalene	Ave	4.164	4.137		0.0199	0.0200	-0.6	
1,2,3-Trichlorobenzene	Ave	1.248	1.172		0.0188	0.0200	-6.1	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Lab Sample ID: CCVIS 240-197822/3 Calibration Date: 09/16/2015 16:16

Instrument ID: A3UX9 Calib Start Date: 08/27/2015 20:26

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 08/27/2015 23:51

Lab File ID: UX952300.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-Dichloroethane-d4 (Surr)	Ave	0.3724	0.3241		0.0134	0.0154	-13.0	20.0
Toluene-d8 (Surr)	Ave	1.874	1.658		0.0136	0.0154	-11.5	
4-Bromofluorobenzene (Surr)	Ave	0.6874	0.6236		0.0140	0.0154	-9.3	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-55376-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-197822/5

Matrix: Water | Lab File ID: UX952303.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2015 17:24

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.: 197822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-197822/5

Matrix: Water Lab File ID: UX952303.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2015 17:24

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.: 197822 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		78-125
460-00-4	4-Bromofluorobenzene (Surr)	85		61-120
2037-26-5	Toluene-d8 (Surr)	86		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-55376-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-197822/6

Matrix: Water | Lab File ID: UX952301.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 09/16/2015 16:37

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.: 197822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	23.3		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	20.6		1.0	0.22
79-00-5	1,1,2-Trichloroethane	21.5		1.0	0.24
75-34-3	1,1-Dichloroethane	21.7		1.0	0.30
75-35-4	1,1-Dichloroethene	19.3		1.0	0.45
95-50-1	1,2-Dichlorobenzene	20.2		1.0	0.25
107-06-2	1,2-Dichloroethane	21.2		1.0	0.23
78-87-5	1,2-Dichloropropane	20.3		1.0	0.25
541-73-1	1,3-Dichlorobenzene	19.0		1.0	0.19
106-46-7	1,4-Dichlorobenzene	19.1		1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	21.8		2.0	0.59
107-02-8	Acrolein	106		20	4.5
107-13-1	Acrylonitrile	218		20	6.3
71-43-2	Benzene	20.3		1.0	0.35
75-25-2	Bromoform	21.8		1.0	0.56
74-83-9	Bromomethane	16.6		2.0	0.44
56-23-5	Carbon tetrachloride	23.5		1.0	0.43
108-90-7	Chlorobenzene	20.5		1.0	0.25
124-48-1	Chlorodibromomethane	21.5		1.0	0.43
75-00-3	Chloroethane	17.1		2.0	0.32
67-66-3	Chloroform	20.5		1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	21.3		1.0	0.46
75-27-4	Dichlorobromomethane	19.4		1.0	0.29
100-41-4	Ethylbenzene	20.7		1.0	0.25
75-09-2	Methylene Chloride	18.7		2.0	0.33
127-18-4	Tetrachloroethene	20.7		1.0	0.31
108-88-3	Toluene	20.0		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	20.6		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	24.3		1.0	0.56
79-01-6	Trichloroethene	21.8		1.0	0.22
75-69-4	Trichlorofluoromethane	19.6		2.0	0.49
75-01-4	Vinyl chloride	15.9		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-197822/6

Matrix: Water Lab File ID: UX952301.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 09/16/2015 16:37

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.: 197822 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		78-125
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120
2037-26-5	Toluene-d8 (Surr)	90		80-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-55376-1

SDG No.:

Client Sample ID: | Lab Sample ID: 240-55404-D-1 MS

Matrix: Water | Lab File ID: UX952325.D

Analysis Method: 624 | Date Collected: 09/15/2015 12:15

Sample wt/vol: 1(mL) | Date Analyzed: 09/17/2015 01:45

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.: 197822 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
110-75-8	2-Chloroethyl vinyl ether	104		10	3.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		78-125
460-00-4	4-Bromofluorobenzene (Surr)	86		61-120
2037-26-5	Toluene-d8 (Surr)	85		80-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Instrument ID: A3UX9 Start Date: 08/27/2015 19:38

Analysis Batch Number: 195200 End Date: 08/28/2015 06:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-195200/1		08/27/2015 19:38	1	BFB3078.D	DB-624 0.18(mm)
STD8260 240-195200/6 IC		08/27/2015 20:26	1	UX951827.D	DB-624 0.18(mm)
STD8260 240-195200/7 IC		08/27/2015 21:11	1	UX951828.D	DB-624 0.18(mm)
ICIS 240-195200/8		08/27/2015 21:56	1	UX951829.D	DB-624 0.18(mm)
STD8260 240-195200/9 IC		08/27/2015 22:42	1	UX951830.D	DB-624 0.18(mm)
STD8260 240-195200/10 IC		08/27/2015 23:28	1	UX951831.D	DB-624 0.18(mm)
STD8260 240-195200/11 IC		08/27/2015 23:51	1	UX951832.D	DB-624 0.18(mm)
STD 240-195200/14 IC		08/28/2015 00:37	1		DB-624 0.18(mm)
STD 240-195200/15 IC		08/28/2015 01:23	1		DB-624 0.18(mm)
STD 240-195200/16 IC		08/28/2015 02:09	1		DB-624 0.18(mm)
STD 240-195200/17 IC		08/28/2015 02:55	1		DB-624 0.18(mm)
STD 240-195200/18 IC		08/28/2015 03:40	1		DB-624 0.18(mm)
STD 240-195200/19 IC		08/28/2015 04:03	1		DB-624 0.18(mm)
ZZZZZ		08/28/2015 06:44	1		DB-624 0.18(mm)

624

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Instrument ID: A3UX9 Start Date: 09/16/2015 15:36

Analysis Batch Number: 197822 End Date: 09/17/2015 01:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-197822/2		09/16/2015 15:36	1	BFB3101.D	DB-624 0.18(mm)
CCVIS 240-197822/3		09/16/2015 16:16	1	UX952300.D	DB-624 0.18(mm)
LCS 240-197822/6		09/16/2015 16:37	1	UX952301.D	DB-624 0.18(mm)
CCV 240-197822/4		09/16/2015 17:00	1	UX952302.D	DB-624 0.18(mm)
MB 240-197822/5		09/16/2015 17:24	1	UX952303.D	DB-624 0.18(mm)
ZZZZZ		09/16/2015 23:03	5		DB-624 0.18(mm)
ZZZZZ		09/16/2015 23:26	2		DB-624 0.18(mm)
240-55376-1	PSP-8-091415	09/16/2015 23:49	1	UX952320.D	DB-624 0.18(mm)
ZZZZZ		09/17/2015 00:12	1		DB-624 0.18(mm)
ZZZZZ		09/17/2015 00:35	1		DB-624 0.18(mm)
ZZZZZ		09/17/2015 00:58	1		DB-624 0.18(mm)
ZZZZZ		09/17/2015 01:21	1		DB-624 0.18(mm)
240-55404-D-1 MS		09/17/2015 01:45	1	UX952325.D	DB-624 0.18(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-55376-1

SDG No.:

Project: MRC

Client Sample ID	Lab Sample ID
PSP-8-091415	240-55376-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PSP-8-091415 Lab Sample ID: 240-55376-1

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG ID.:

Matrix: Water Date Sampled: 09/14/2015 14:30

Reporting Basis: WET Date Received: 09/15/2015 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	pH	7.19	0.100	0.100	SU			1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Analyst: DTN Batch Start Date: 09/15/2015

Reporting Units: SU Analytical Batch No.: 197563

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	10:45	pH	7.020	7.00	100	99-101		WCPH7_00073
5	CCV	12:05	pH	7.030	7.00	100	99-101		WCPH7_00073
13	CCV	14:46	pH	7.030	7.00	100	99-101		WCPH7_00073

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

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 197563 Date: 09/15/2015 12:26								
4500 H+ B-2000		240-55367-M-2	pH	6.11	SU			
4500 H+ B-2000		240-55367-M-2 DU	pH	6.170	SU	1	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 197563	Date: 09/15/2015 11:05										
						LCS Source: WCPHLCS_00010					
4500 H+ B-2000	LCS 240-197563/2	pH	6.190		SU	6.15	101	97-103			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-55376-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-55376-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 09/15/2015 10:45 End Date: 09/15/2015 17:07

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-197563/1	1		10:45	X																			
LCS 240-197563/2	1	T	11:05	X																			
CCV 240-197563/5	1		12:05	X																			
240-55367-M-2 DU	1	T	12:26	X																			
240-55376-1	1	T	14:26	X																			
CCV 240-197563/13	1		14:46	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Batch Number: 197563 Batch Start Date: 09/15/15 10:45 Batch Analyst: Nguyen, Diem

Batch Method: 4500 H+ B-2000 Batch End Date: 09/15/15 17:28

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-197563/1		4500 H+ B-2000		10 mL	7.02 SU	20.2 Celsius			pH = Read 1
LCS 240-197563/2		4500 H+ B-2000		10 mL	6.19 SU	20.2 Celsius			pH = Read 1
CCV 240-197563/5		4500 H+ B-2000		10 mL	7.03 SU	20.4 Celsius			pH = Read 1
240-55367-M-2 DU		4500 H+ B-2000	T	10 mL	6.15 SU	19.9 Celsius	6.17 SU	19.8 Celsius	Read 2 Pass
240-55376-D-1	PSP-8-091415	4500 H+ B-2000	T	10 mL	7.18 SU	23.2 Celsius	7.19 SU	23.3 Celsius	Read 2 Pass
CCV 240-197563/13		4500 H+ B-2000		10 mL	7.03 SU	21.0 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00073	WCPHLCS 00010				
CCV 240-197563/1		4500 H+ B-2000		10 mL					
LCS 240-197563/2		4500 H+ B-2000			10 mL				
CCV 240-197563/5		4500 H+ B-2000		10 mL					
240-55367-M-2 DU		4500 H+ B-2000	T						
240-55376-D-1	PSP-8-091415	4500 H+ B-2000	T						
CCV 240-197563/13		4500 H+ B-2000		10 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-55376-1

SDG No.:

Batch Number: 197563 Batch Start Date: 09/15/15 10:45 Batch Analyst: Nguyen, Diem

Batch Method: 4500 H+ B-2000 Batch End Date: 09/15/15 17:28

Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1838816
pH Buffer 2 ID	4-2124388
pH Buffer 3 ID	7-1896764
pH Buffer 4 ID	10-2124389
pH Buffer 5 ID	12-2125110
Calibration Date and Time	09/15/15; 11:00
Electronic Slope	100.6%
Instrument ID	Randolph
Pipette ID	B1
Probe ID	WCP108
Sufficient volume for sample dup	Y

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Laboratories, Inc.

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-55376 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

1.4 → 2.4

Chain of Custody Record

016085

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Tony Apanavage	Site Contact: Walt Pryor	Date: 9-14-15	COC No:
Company Name: Tetra Tech Inc	Tel/Fax: 301 528-3021 3000	Lab Contact: Pat Omena	Carrier: Fed Ex	1 of 1 COCs
Address: 20251 Century Blvd	Analysis Turnaround Time			Sampler:
City/State/Zip: Germantown, MD 20874	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 301 528-3021	TAT if different from Below _____			Walk-in Client:
Fax: 3000	☐ 2 weeks			Lab Sampling:
Project Name: MRC	☐ 1 week			
Site: MRC	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOC - PP	PH	Sample Specific Notes:
TB-091415	9-14-15	—	G	GW	2	N	N	X		
DSP-8-091415	↓	1430	↓	↓	4	↓	↓	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ 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:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TT Inc	9-14-15/1500	[signature]	TestAmerica	9/14/15/1510
[signature]	TestAmerica	9/14/15/1611	[signature]	TA	9-15-15 945
			Received in Laboratory by:		

TestAmerica Canton Sample Receipt Form/Narrative Login # : 553716
Canton Facility

Client Tetra tech Site Name _____ Cooler unpacked by:

Cooler Received on 9-15-15 Opened on 9-15-15

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A (CF +1.0 °C) Observed Cooler Temp. 1.4 °C Corrected Cooler Temp. 2.4 °C

~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

☐ See Multiple Cooler Form

IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were custody seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
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 correct bottle(s) used for the test(s) indicated?	(Yes)	No
10. Sufficient quantity received to perform indicated analyses?	(Yes)	No
11. Were sample(s) at the correct pH upon receipt?	Yes	No (NA) pH Strip Lot# **HC554612**
12. Were VOAs on the COC?	(Yes)	No
13. Were air bubbles >6 mm in any VOA vials?	Yes	(No) NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	(No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

Did not recv TB listed on COC, will not log.

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ 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 the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

10/15/2015 SAMPLING EVENT

ANALYTICAL REPORT

Job Number: 240-56702-1

Job Description: LM MRC Block E

For:
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Pittsburgh, PA 15220-2745

Attention: Chris Pike



Approved for release.
John McFadden
Project Manager I
10/23/2015 4:01 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
10/23/2015

cc: Tony Apanavage
Samantha Brenner
Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: LM MRC Block E

Report Number: 240-56702-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 10/16/2015 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 0.1º C, 0.3º C and 0.5º C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Sample DSP-9-101515 (240-56702-1) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The sample was analyzed on 10/19/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH

Sample DSP-9-101515 (240-56702-1) was analyzed for pH in accordance with SM 4500 H+ B. The sample was analyzed on 10/19/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Instrument ID: A3UX12 Analysis Batch Number: 199622

Lab Sample ID: STD8260 240-199622/7 IC Client Sample ID:

Date Analyzed: 09/29/15 19:02 Lab File ID: U1246599.D GC Column: DB-624 ID: 0.18(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl chloride	1.89	Split Peak	laveyt	09/29/15 21:43

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-56702-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-56702-1	DSP-9-101515	Water	10/15/2015 1310	10/16/2015 0930

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-56702-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-56702-1	**DSP-9-101515**					
pH		7.08	HF	0.100	SU	4500 H+ B-2000

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-56702-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
pH	TAL CAN	SM 4500 H+ B-2000	

Lab References:

TAL CAN = TestAmerica Canton

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-56702-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
SM 4500 H+ B-2000	Weimer, Joshua W	JWW

Client: Tetra Tech, Inc. Job Number: 240-56702-1

Client Sample ID: DSP-9-101515

Lab Sample ID: 240-56702-1 Date Sampled: 10/15/2015 1310
Client Matrix: Water Date Received: 10/16/2015 0930

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-202577	Instrument ID:	A3UX12
	N/A	Prep Batch:	N/A	Lab File ID:	U1246963.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/19/2015 2137			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		78 - 125
Toluene-d8 (Surr)	87		80 - 120
4-Bromofluorobenzene (Surr)	79		61 - 120

General Chemistry

Client Sample ID: **DSP-9-101515**

Lab Sample ID: 240-56702-1 Date Sampled: 10/15/2015 1310
Client Matrix: Water Date Received: 10/16/2015 0930

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
pH	7.08	HF	SU	0.100	0.100	1.0	4500 H+ B-2000

Analysis Batch: 240-202585 Analysis Date: 10/19/2015 2058

Client: Tetra Tech, Inc. Job Number: 240-56702-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
240-56702-1	DSP-9-101515	89	87	79
MB 240-202577/7		97	97	87
LCS 240-202577/6		89	102	95
190-8688-G-2 MS		98	92	78

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	61-120

Client: Tetra Tech, Inc. Job Number: 240-56702-1

Method Blank - Batch: 240-202577

Method: 624
Preparation: N/A

Lab Sample ID:	MB 240-202577/7	Analysis Batch:	240-202577	Instrument ID:	A3UX12
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	U1246951.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/19/2015 1712	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	78 - 125
Toluene-d8 (Surr)	97	80 - 120
4-Bromofluorobenzene (Surr)	87	61 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	95	61 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	78	61 - 120

Client: Tetra Tech, Inc. Job Number: 240-56702-1

Lab Control Sample - Batch: 240-202585

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-202585/18	Analysis Batch:	240-202585	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/19/2015 1456	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.15	6.190	101	97 - 103	

Duplicate - Batch: 240-202585

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-56739-E-2 DU	Analysis Batch:	240-202585	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	10/19/2015 1456	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.00	7.020	0.3	20	

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-56702-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	F1	MS and/or MSD Recovery is outside acceptance limits.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Client: Tetra Tech, Inc. Job Number: 240-56702-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-202577					
LCS 240-202577/6	Lab Control Sample	T	Water	624	
MB 240-202577/7	Method Blank	T	Water	624	
190-8688-G-2 MS	Matrix Spike	T	Water	624	
240-56702-1	DSP-9-101515	T	Water	624	

Report Basis
T = Total

General Chemistry					
Analysis Batch:240-202585					
LCS 240-202585/18	Lab Control Sample	T	Water	4500 H+ B-2000	
240-56702-1	DSP-9-101515	T	Water	4500 H+ B-2000	
240-56739-E-2 DU	Duplicate	T	Water	4500 H+ B-2000	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-56702-1

Laboratory Chronicle

Lab ID: 240-56702-1 **Client ID: DSP-9-101515**

Sample Date/Time: 10/15/2015 13:10 Received Date/Time: 10/16/2015 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-56702-A-1		240-202577		10/19/2015 21:37	1	TAL CAN	TJL1
A:4500 H+ B-2000	240-56702-D-1		240-202585		10/19/2015 20:58	1	TAL CAN	JWW

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-202577/7		240-202577		10/19/2015 17:12	1	TAL CAN	TJL1

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-202577/6		240-202577		10/19/2015 16:06	1	TAL CAN	TJL1
A:4500 H+ B-2000	LCS 240-202585/18		240-202585		10/19/2015 14:56	1	TAL CAN	JWW

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 10/13/2015 09:17 Received Date/Time: 10/14/2015 15:10

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	190-8688-G-2 MS		240-202577		10/20/2015 05:05	1	TAL CAN	TJL1

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 10/16/2015 10:00 Received Date/Time: 10/17/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-56739-E-2 DU		240-202585		10/19/2015 14:56	1	TAL CAN	JWW

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_00025	12/19/15	06/19/15	MEOH, Lot 85233	50 mL	vm30241_00003	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00003	04/30/20		restek, Lot A0110589		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00020	10/22/15	04/22/15	MEOH, Lot 85233	100 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00215	10/05/15	09/28/15	MEOH, Lot na	2 mL	vm50ss_stk_00066	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00066	12/11/15	06/11/15	MEOH, Lot 0000085233	200 mL	VM567650_00021	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00021	04/30/19		Restek, Lot A0102817		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00118	09/30/15	09/28/15	MEOH, Lot na	3 mL	VMACROLSTD_00029	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00029	09/30/15	09/01/15	MEOH, Lot 147358	20 mL	VM568720_00008	250 uL	Acrolein	250 ug/mL
..VM568720_00008	09/30/15		restek, Lot A0111006		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00121	10/24/15	10/17/15	MEOH, Lot na	3 mL	VMACROLSTD_00030	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00030	10/31/15	10/01/15	MEOH, Lot 0000099494	20 mL	VM568720_00009	250 uL	Acrolein	250 ug/mL
..VM568720_00009	11/30/15		restek, Lot A0112264		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00106	10/24/15	10/17/15	MEOH, Lot NA	2 mL	VMFASA_00020	2 mL	Acrolein	250 ug/mL
.VMFASA_00020	10/31/15	10/01/15	MEOH, Lot 0000099494	100 mL	VM568720S_00009	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00009	10/31/15		restek, Lot A0112019		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00118	10/20/15	10/13/15	MEOH, Lot NA	2 mL	VMFASG_00034	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00034	10/29/15	09/29/15	MEOH, Lot 0000099494	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15		Restek, Lot A099261		(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00121	10/20/15	10/13/15	MEOH, Lot n/a	2 mL	VMRFASP_00023	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
.VMRFASP_00023	10/31/15	09/29/15	MEOH, Lot 99494	100 mL	VM567641S_00007	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM569723S_00002	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM569723S_00002	03/31/18		Restek, Lot A0110013		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
VMRGAS_00119	09/29/15	09/22/15	MEOH, Lot 147358	10 mL	vm569722_00002	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00002	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00122	10/22/15	10/15/15	MEOH, Lot 0000099494	10 mL	vm569722_00002	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Vinyl chloride	50 ug/mL
.vm569722_00002	01/31/18		Restek, Lot A0108198		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00149	10/01/15	09/24/15	MEOH, Lot NA	1 mL	VMRPRIM_00013	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
.VMRPRIM_00013	10/31/15	09/01/15	MEOH, Lot 147358	50 mL	VM567641_00013	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00015	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00002	0.5 mL	Vinyl acetate	50 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Cyclohexane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00015	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM569724_00002	10/31/15		Restek, Lot A0110407		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VMRPRIMW_00152	10/22/15	10/15/15	MEOH, Lot NA	1 mL	VMRPRIM_00013	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00013	10/31/15	09/01/15	MEOH, Lot 147358	50 mL	VM567641_00013	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCPH7_00073	11/03/16		Fisher Scientific, Lot 147660		(Purchased Reagent)		pH	7 SU
WCPHLCS_00010	08/31/16		Phenova, Lot 8137-15		(Purchased Reagent)		pH	6.15 SU

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-56702-1
Project/Site: LM MRC Block E

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	Kentucky (WW)	State Program	4	98016
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Oregon	NELAP	10	4062
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	T104704517-15-5
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL_UP

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
DSP-9-101515	240-56702-1	89	87	79
	MB 240-202577/7	97	97	87
	LCS 240-202577/6	89	102	95
	190-8688-G-2 MS	98	92	78

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	61-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Lab File ID: U1246951.D Lab Sample ID: MB 240-202577/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX12 Date Analyzed: 10/19/2015 17:12

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 240-202577/6	U1246948.D	10/19/2015 16:06
DSP-9-101515	240-56702-1	U1246963.D	10/19/2015 21:37
	190-8688-G-2 MS	U1246982.D	10/20/2015 05:05

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Lab File ID: BFB3056.D BFB Injection Date: 09/29/2015

Instrument ID: A3UX12 BFB Injection Time: 18:33

Analysis Batch No.: 199622

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.9	
75	30.0 - 60.0 % of mass 95	48.5	
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	0.4	(0.5)1
174	50.0 - 120.00 % of mass 95	82.8	
175	5.0 - 9.0 % of mass 174	5.9	(7.2)1
176	95.0 - 101.0 % of mass 174	79.9	(96.5)1
177	5.0 - 9.0 % of mass 176	5.7	(7.1)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 240-199622/7	U1246599.D	09/29/2015	19:02
	STD8260 240-199622/8	U1246600.D	09/29/2015	19:26
	STD8260 240-199622/9	U1246601.D	09/29/2015	19:47
	ICIS 240-199622/10	U1246602.D	09/29/2015	20:11
	STD8260 240-199622/11	U1246603.D	09/29/2015	20:35
	STD8260 240-199622/12	U1246604.D	09/29/2015	20:57

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Lab File ID: BFB3070.D BFB Injection Date: 10/19/2015

Instrument ID: A3UX12 BFB Injection Time: 15:10

Analysis Batch No.: 202577

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.3	
75	30.0 - 60.0 % of mass 95	50.0	
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	0.7	(0.8)1
174	50.0 - 120.00 % of mass 95	85.3	
175	5.0 - 9.0 % of mass 174	6.3	(7.4)1
176	95.0 - 101.0 % of mass 174	81.2	(95.2)1
177	5.0 - 9.0 % of mass 176	5.4	(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 240-202577/3	U1246947.D	10/19/2015	15:43
	LCS 240-202577/6	U1246948.D	10/19/2015	16:06
	CCV 240-202577/4	U1246949.D	10/19/2015	16:27
	MB 240-202577/7	U1246951.D	10/19/2015	17:12
DSP-9-101515	240-56702-1	U1246963.D	10/19/2015	21:37
	190-8688-G-2 MS	U1246982.D	10/20/2015	05:05

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Sample No.: ICIS 240-199622/10 Date Analyzed: 09/29/2015 20:11

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1246602.D Heated Purge: (Y/N) N

Calibration ID: 30942

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		780022	5.41	599712	8.22	261384	10.61
UPPER LIMIT		1560044	5.91	1199424	8.72	522768	11.11
LOWER LIMIT		390011	4.91	299856	7.72	130692	10.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 240-202577/3		744243	5.40	593175	8.22	251428	10.61

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 624

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Sample No.: CCVIS 240-202577/3 Date Analyzed: 10/19/2015 15:43

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): U1246947.D Heated Purge: (Y/N) N

Calibration ID: 30942

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		744243	5.40	593175	8.22	251428	10.61
UPPER LIMIT		1488486	5.90	1186350	8.72	502856	11.11
LOWER LIMIT		372122	4.90	296588	7.72	125714	10.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-202577/6		735470	5.41	570001	8.22	228445	10.61
CCV 240-202577/4		745714	5.41	592095	8.22	225607	10.60
MB 240-202577/7		728302	5.41	583319	8.22	230234	10.61
240-56702-1	DSP-9-101515	794639	5.41	662766	8.22	248881	10.61
190-8688-G-2 MS		759780	5.40	608956	8.22	252272	10.61

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-56702-1

SDG No.:

Client Sample ID: DSP-9-101515 | Lab Sample ID: 240-56702-1

Matrix: Water | Lab File ID: U1246963.D

Analysis Method: 624 | Date Collected: 10/15/2015 13:10

Sample wt/vol: 5(mL) | Date Analyzed: 10/19/2015 21:37

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.: 202577 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Client Sample ID: DSP-9-101515 Lab Sample ID: 240-56702-1

Matrix: Water Lab File ID: U1246963.D

Analysis Method: 624 Date Collected: 10/15/2015 13:10

Sample wt/vol: 5(mL) Date Analyzed: 10/19/2015 21:37

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.: 202577 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		78-125
2037-26-5	Toluene-d8 (Surr)	87		80-120
460-00-4	4-Bromofluorobenzene (Surr)	79		61-120

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-56702-1 Analy Batch No.: 199622

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/29/2015 19:02 Calibration End Date: 09/29/2015 20:57 Calibration ID: 30942

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-199622/7	U1246599.D
Level 2	STD8260 240-199622/8	U1246600.D
Level 3	STD8260 240-199622/9	U1246601.D
Level 4	ICIS 240-199622/10	U1246602.D
Level 5	STD8260 240-199622/11	U1246603.D
Level 6	STD8260 240-199622/12	U1246604.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	0.3597 0.5158	0.3514	0.5330	0.4756	0.4464	Ave		0.4470				17.2		35.0			
Chloromethane	0.6007 0.5291	0.5463	0.5182	0.5607	0.5493	Ave		0.5507				5.2		35.0			
Vinyl chloride	0.6280 0.6563	0.5930	0.6553	0.6697	0.6615	Ave		0.6440				4.4		35.0			
Bromomethane	0.3936 0.3199	0.3958	0.3313	0.3613	0.3576	Ave		0.3599				8.7		35.0			
Chloroethane	0.4201 0.4086	0.4138	0.3952	0.4210	0.4172	Ave		0.4127				2.3		35.0			
Dichlorofluoromethane	0.8308 0.7710	0.8742	0.7685	0.8145	0.8127	Ave		0.8119				4.9		35.0			
Trichlorofluoromethane	0.4832 0.6325	0.4054	0.6322	0.6081	0.6013	Ave		0.5604				16.8		35.0			
Acrolein	0.0261 0.0323	0.0229	0.0294	0.0316	0.0349	Ave		0.0295				14.9		35.0			
1,1-Dichloroethene	0.5891 0.6658	0.5859	0.6788	0.6501	0.6567	Ave		0.6377				6.3		35.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3347 0.3960	0.3013	0.3897	0.3471	0.3603	Ave		0.3549				10.0		35.0			
Acetone	+++++ 0.1215	0.4903	0.1308	0.1471	0.1311	Lin1	0.7209	0.1186							0.9950		0.9900
Carbon disulfide	1.1503 1.1207	1.2586	1.1369	1.1623	1.2233	Ave		1.1753				4.6		35.0			
Methyl acetate	0.3248 0.2810	0.3152	0.2704	0.2735	0.3075	Ave		0.2954				7.9		35.0			
Methylene Chloride	+++++ 0.5663	1.7594	0.6586	0.6280	0.6173	Lin1	1.1934	0.5625							0.9990		0.9900
Acrylonitrile	0.1532 0.1675	0.1697	0.1665	0.1680	0.1741	Ave		0.1665				4.2		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-56702-1 Analy Batch No.: 199622

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/29/2015 19:02 Calibration End Date: 09/29/2015 20:57 Calibration ID: 30942

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								
Methyl tert-butyl ether	0.8637 1.0284	0.9685	0.9675	0.9751	1.0724	Ave		0.9793				7.2		35.0			
trans-1,2-Dichloroethene	0.4760 0.4621	0.4912	0.4592	0.4682	0.4817	Ave		0.4731				2.6		35.0			
Hexane	0.1987 +++++	0.1806	0.2844	0.2346	0.2367	Ave		0.2270				17.6		35.0			
1,1-Dichloroethane	0.5564 0.5666	0.5920	0.5609	0.5677	0.6043	Ave		0.5747				3.3		35.0			
Vinyl acetate	0.3665 0.4538	0.3459	0.3901	0.3995	0.4285	Ave		0.3974				9.9		35.0			
cis-1,2-Dichloroethene	0.4811 0.4432	0.4840	0.4379	0.4427	0.4676	Ave		0.4594				4.5		35.0			
2-Butanone (MEK)	0.1922 0.1764	0.1984	0.1694	0.1838	0.1797	Ave		0.1833				5.8		35.0			
Chlorobromomethane	0.2538 0.2502	0.2951	0.2578	0.2670	0.2667	Ave		0.2651				6.1		35.0			
Chloroform	0.5859 0.5135	0.5386	0.5128	0.5080	0.5441	Ave		0.5338				5.5		35.0			
1,1,1-Trichloroethane	0.2377 0.3776	0.3485	0.3372	0.3567	0.3782	Ave		0.3393				15.4		35.0			
Cyclohexane	0.3710 0.4458	0.3539	0.4255	0.3944	0.4070	Ave		0.3996				8.5		35.0			
1,1-Dichloropropene	0.2862 0.3867	0.3888	0.3814	0.3874	0.3991	Ave		0.3716				11.4		35.0			
Carbon tetrachloride	0.1768 0.2693	0.2248	0.2319	0.2351	0.2558	Ave		0.2323				13.7		35.0			
Isobutyl alcohol	0.0019 0.0065	0.0032	0.0034	0.0039	0.0051	Qua	-0.060	0.0035	0.0000015						1.0000		0.9900
Benzene	1.3155 1.3591	1.5037	1.3505	1.3574	1.4254	Ave		1.3853				4.9		35.0			
1,2-Dichloroethane	0.3844 0.4036	0.3510	0.4163	0.4051	0.4238	Ave		0.3974				6.6		35.0			
Trichloroethene	0.3204 0.3296	0.3434	0.3182	0.3293	0.3395	Ave		0.3301				3.0		35.0			
Methylcyclohexane	0.2213 0.3742	0.2781	0.3402	0.2999	0.3129	Ave		0.3044				17.3		35.0			
1,2-Dichloropropane	0.2818 0.3263	0.3301	0.3197	0.3311	0.3463	Ave		0.3225				6.8		35.0			
Dichlorobromomethane	0.4013 0.3671	0.2944	0.3370	0.3501	0.3852	Ave		0.3558				10.7		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-56702-1 Analy Batch No.: 199622

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/29/2015 19:02 Calibration End Date: 09/29/2015 20:57 Calibration ID: 30942

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								
2-Chloroethyl vinyl ether	0.1972 0.2460	0.2069	0.2306	0.2434	0.2547	Ave		0.2298				10.0		35.0			
cis-1,3-Dichloropropene	0.3185 0.4779	0.3433	0.3785	0.4226	0.4708	Ave		0.4019				16.5		35.0			
4-Methyl-2-pentanone (MIBK)	0.3064 0.3323	0.3123	0.3370	0.3276	0.3425	Ave		0.3263				4.3		35.0			
Toluene	1.8766 1.7233	1.6332	1.7477	1.7641	1.8120	Ave		1.7595				4.7		35.0			
trans-1,3-Dichloropropene	0.3068 0.4804	0.3177	0.3814	0.4141	0.4604	Ave		0.3935				18.3		35.0			
1,1,2-Trichloroethane	0.3359 0.3758	0.3456	0.3702	0.4030	0.4003	Ave		0.3718				7.4		35.0			
Tetrachloroethene	0.2875 0.3276	0.3540	0.3398	0.3256	0.3450	Ave		0.3299				7.1		35.0			
1,3-Dichloropropane	0.6883 0.7282	0.7883	0.7402	0.7712	0.7683	Ave		0.7474				4.9		35.0			
2-Hexanone	0.2500 0.3102	0.2825	0.3155	0.3181	0.3172	Ave		0.2989				9.2		35.0			
Chlorodibromomethane	0.2566 0.3363	0.2162	0.2826	0.3044	0.3280	Ave		0.2873				15.8		35.0			
Ethylene Dibromide	0.3104 0.3925	0.3873	0.3551	0.3902	0.4001	Ave		0.3726				9.2		35.0			
Chlorobenzene	1.2334 1.1321	1.1758	1.1610	1.1778	1.2057	Ave		1.1810				3.0		35.0			
1,1,1,2-Tetrachloroethane	0.2449 0.3186	0.2350	0.2595	0.2906	0.3080	Ave		0.2761				12.5		35.0			
Ethylbenzene	0.5525 0.5225	0.5221	0.5294	0.5383	0.5560	Ave		0.5368				2.8		35.0			
m-Xylene & p-Xylene	0.5926 0.6605	0.6183	0.6528	0.6879	0.6832	Ave		0.6492				5.7		35.0			
o-Xylene	0.6842 0.6773	0.6402	0.6607	0.6945	0.7097	Ave		0.6778				3.6		35.0			
Styrene	1.1849 1.3123	1.1738	1.2372	1.3189	1.3837	Ave		1.2685				6.6		35.0			
Bromoform	0.1348 0.2149	0.1583	0.1557	0.1872	0.2007	Ave		0.1753				17.5		35.0			
Isopropylbenzene	1.2105 1.4339	1.3207	1.3707	1.4481	1.4973	Ave		1.3802				7.5		35.0			
1,1,2,2-Tetrachloroethane	1.4883 1.3453	1.3501	1.4002	1.3966	1.3955	Ave		1.3960				3.7		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-56702-1 Analy Batch No.: 199622

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/29/2015 19:02 Calibration End Date: 09/29/2015 20:57 Calibration ID: 30942

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								
1,3,5-Trimethylbenzene	2.8559 2.7255	2.5960	2.7262	2.7235	2.8172	Ave		2.7407				3.3		35.0			
1,2,4-Trimethylbenzene	2.9135 2.9719	2.9753	2.9653	2.9711	3.1038	Ave		2.9835				2.1		35.0			
1,3-Dichlorobenzene	1.8940 1.8350	1.8913	1.9007	1.9029	1.9482	Ave		1.8953				1.9		35.0			
1,4-Dichlorobenzene	2.2789 1.9184	1.9700	2.0218	1.9927	2.0949	Ave		2.0461				6.3		35.0			
1,2-Dichlorobenzene	2.5070 1.9164	1.9024	1.9436	1.9970	2.0443	Ave		2.0518				11.2		35.0			
1,2,4-Trichlorobenzene	1.4348 1.2390	1.1639	1.2307	1.2864	1.2957	Ave		1.2751				7.2		35.0			
Naphthalene	4.3813 4.3156	3.9734	4.1294	4.3304	4.4554	Ave		4.2642				4.2		35.0			
1,2-Dichloroethane-d4 (Surr)	0.3431 0.3298	0.3191	0.3596	0.3471	0.3587	Ave		0.3429				4.7		35.0			
Toluene-d8 (Surr)	1.3950 1.4050	1.5278	1.4715	1.4944	1.5221	Ave		1.4693				3.9		35.0			
4-Bromofluorobenzene (Surr)	0.6627 0.5053	0.5016	0.5333	0.5335	0.5381	Ave		0.5457				10.9		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-56702-1 Analy Batch No.: 199622

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/29/2015 19:02 Calibration End Date: 09/29/2015 20:57 Calibration ID: 30942

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-199622/7	U1246599.D
Level 2	STD8260 240-199622/8	U1246600.D
Level 3	STD8260 240-199622/9	U1246601.D
Level 4	ICIS 240-199622/10	U1246602.D
Level 5	STD8260 240-199622/11	U1246603.D
Level 6	STD8260 240-199622/12	U1246604.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	6954 1692328	12368	207666	370998	703756	0.500 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	11613 1736217	19230	201879	437320	865910	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	12142 2153508	20874	255301	522412	1042801	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	7609 1049528	13933	129059	281805	563694	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	8122 1340621	14564	153983	328423	657684	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	16063 2529665	30772	299415	635291	1281148	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	9343 2075240	14271	246305	474303	947859	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	2519 530643	4037	57247	123061	275410	2.50 400	5.00	50.0	100	200
1,1-Dichloroethene	FB	Ave	11390 2184670	20624	264462	507117	1035163	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Ave	6471 1299476	10607	151821	270735	567935	0.500 80.0	1.00	10.0	20.0	40.0
Acetone	FB	Lin1	+++++ 797328	34519	101918	229509	413377	+++++ 160	2.00	20.0	40.0	80.0
Carbon disulfide	FB	Ave	22240 3677335	44301	442922	906603	1928379	0.500 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	31395 4610169	55478	526830	1066629	2423520	2.50 400	5.00	50.0	100	200
Methylene Chloride	FB	Lin1	+++++ 1858279	61929	256608	489816	973143	+++++ 80.0	1.00	10.0	20.0	40.0
Acrylonitrile	FB	Ave	29627 5496590	59739	648523	1310339	2743902	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	16698 3374491	34089	376948	760607	1690570	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-56702-1 Analy Batch No.: 199622

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/29/2015 19:02 Calibration End Date: 09/29/2015 20:57 Calibration ID: 30942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
trans-1,2-Dichloroethene	FB	Ave	9203 1516086	17291	178914	365231	759378	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	3842 +++++	6357	110814	182982	373116	0.500 +++++	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	10757 1859276	20839	218533	442848	952552	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	7086 1489068	12176	151964	311594	675451	0.500 80.0	1.00	10.0	20.0	40.0
cis-1,2-Dichloroethene	FB	Ave	9302 1454251	17037	170619	345296	737173	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	7433 1157583	13969	131959	286778	566485	1.00 160	2.00	20.0	40.0	80.0
Chlorobromomethane	FB	Ave	4906 820951	10388	100419	208257	420483	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	11327 1684759	18958	199778	396227	857791	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	4596 1238922	12268	131388	278250	596180	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	7172 1462689	12458	165790	307610	641593	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	5534 1268857	13687	148583	302217	629161	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	3418 883481	7914	90357	183386	403323	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Qua	911 535807	2849	32839	76627	200671	12.5 2000	25.0	250	500	1000
Benzene	FB	Ave	25434 4459550	52929	526148	1058811	2246956	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	7432 1324318	12354	162189	315984	668112	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	6195 1081592	12086	123986	256857	535199	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	4279 1227675	9788	132523	233946	493299	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	5449 1070574	11620	124540	258240	545923	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	7759 1204507	10361	131296	273087	607198	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	7624 1614532	14567	179644	379658	802998	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	6158 1568158	12083	147467	329624	742164	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-56702-1 Analy Batch No.: 199622

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/29/2015 19:02 Calibration End Date: 09/29/2015 20:57 Calibration ID: 30942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methyl-2-pentanone (MIBK)	FB	Ave	11846 2180352	21989	262608	511003	1079696	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	28312 4484285	46334	523572	1057946	2266308	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	4629 1250152	9012	114252	248345	575794	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	5067 978031	9804	110900	241679	500637	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	4338 852550	10043	101794	195253	431461	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	10384 1894988	22364	221751	462485	960915	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	7543 1614562	16032	189043	381486	793466	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	3871 875047	6134	84670	182569	410200	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	4683 1021371	10989	106368	234033	500456	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	18608 2945943	33359	347811	706350	1507926	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	3695 829032	6666	77751	174305	385232	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	8335 1359563	14811	158608	322812	695351	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	8940 1718656	17541	195555	412543	854508	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	10322 1762583	18163	197935	416491	887568	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	17877 3414921	33302	370660	790971	1730582	0.500 80.0	1.00	10.0	20.0	40.0
Bromoform	CBZ	Ave	2033 559332	4492	46636	112273	251056	0.500 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	18263 3731258	37468	410646	868454	1872676	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	9206 1517610	16324	176818	365043	754665	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	17665 3074570	31388	344260	711872	1523462	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	18021 3352562	35974	374455	776585	1678481	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	11715 2070016	22868	240023	497383	1053543	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-56702-1 Analy Batch No.: 199622

SDG No.:

Instrument ID: A3UX12 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/29/2015 19:02 Calibration End Date: 09/29/2015 20:57 Calibration ID: 30942

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	14096 2164150	23819	255314	520872	1132905	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	15507 2161878	23002	245437	521983	1105512	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	8875 1397699	14072	155415	336255	700667	0.500 80.0	1.00	10.0	20.0	40.0
Naphthalene	DCB	Ave	27100 4868377	48042	521457	1131891	2409379	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	6634 1082116	11232	140096	270759	565465	0.500 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	21047 3656201	43344	440852	896180	1903694	0.500 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	9998 1314974	14230	159759	319925	673041	0.500 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Lab Sample ID: CCVIS 240-202577/3 Calibration Date: 10/19/2015 15:43

Instrument ID: A3UX12 Calib Start Date: 09/29/2015 19:02

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/29/2015 20:57

Lab File ID: U1246947.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	0.4470	0.4729		0.0212	0.0200	5.8	
Chloromethane	Ave	0.5507	0.6641		0.0241	0.0200	20.6	99.0
Vinyl chloride	Ave	0.6440	0.7056		0.0219	0.0200	9.6	96.0
Bromomethane	Ave	0.3599	0.3632		0.0202	0.0200	0.9	86.0
Chloroethane	Ave	0.4127	0.4572		0.0222	0.0200	10.8	62.0
Dichlorofluoromethane	Ave	0.8119	0.8937		0.0220	0.0200	10.1	
Trichlorofluoromethane	Ave	0.5604	0.6531		0.0233	0.0200	16.5	52.0
Ethyl ether	Ave	0.2963	0.3219		0.0217	0.0200	8.6	
Acrolein	Ave	0.0295	0.0458		0.155	0.100	55.0	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3549	0.3791		0.0214	0.0200	6.8	
1,1-Dichloroethene	Ave	0.6377	0.7137		0.0224	0.0200	11.9	49.0
Acetone	Lin1		0.1264		0.0365	0.0400	-8.6	
Iodomethane	Ave	0.6727	0.7111		0.0211	0.0200	5.7	
Carbon disulfide	Ave	1.175	1.208		0.0206	0.0200	2.8	
Methyl acetate	Ave	0.2954	0.2777		0.0940	0.100	-6.0	
Methylene Chloride	Lin1		0.6675		0.0216	0.0200	8.1	39.0
2-Methyl-2-propanol	Ave	0.0290	0.0288		0.199	0.200	-0.5	
Acrylonitrile	Ave	0.1665	0.1647		0.198	0.200	-1.1	
Methyl tert-butyl ether	Ave	0.9793	1.075		0.0219	0.0200	9.7	
trans-1,2-Dichloroethene	Ave	0.4731	0.4916		0.0208	0.0200	3.9	30.0
Hexane	Ave	0.2270	0.2366		0.0208	0.0200	4.2	
1,1-Dichloroethane	Ave	0.5747	0.5994		0.0209	0.0200	4.3	27.0
Vinyl acetate	Ave	0.3974	0.4492		0.0226	0.0200	13.0	
2,2-Dichloropropane	Ave	0.1498	0.1886		0.0252	0.0200	25.9	
2-Butanone (MEK)	Ave	0.1833	0.1725		0.0376	0.0400	-5.9	
cis-1,2-Dichloroethene	Ave	0.4594	0.4761		0.0207	0.0200	3.6	
Chlorobromomethane	Ave	0.2651	0.3317		0.0250	0.0200	25.1	
Chloroform	Ave	0.5338	0.5295		0.0198	0.0200	-0.8	33.0
1,1,1-Trichloroethane	Ave	0.3393	0.4027		0.0237	0.0200	18.7	25.0
Cyclohexane	Ave	0.3996	0.4048		0.0203	0.0200	1.3	
1,1-Dichloropropene	Ave	0.3716	0.4059		0.0218	0.0200	9.2	
Carbon tetrachloride	Ave	0.2323	0.2569		0.0221	0.0200	10.6	27.0
Isobutyl alcohol	Qua		0.0039		0.472	0.500	-5.6	
Benzene	Ave	1.385	1.438		0.0208	0.0200	3.8	36.0
1,2-Dichloroethane	Ave	0.3974	0.4153		0.0209	0.0200	4.5	32.0
Trichloroethene	Ave	0.3301	0.3423		0.0207	0.0200	3.7	33.0
Methylcyclohexane	Ave	0.3044	0.3104		0.0204	0.0200	2.0	
1,2-Dichloropropane	Ave	0.3225	0.3568		0.0221	0.0200	10.6	66.0
Dibromomethane	Ave	0.2240	0.2324		0.0207	0.0200	3.7	
Dichlorobromomethane	Ave	0.3558	0.3828		0.0215	0.0200	7.6	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Lab Sample ID: CCVIS 240-202577/3 Calibration Date: 10/19/2015 15:43

Instrument ID: A3UX12 Calib Start Date: 09/29/2015 19:02

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/29/2015 20:57

Lab File ID: U1246947.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	0.2298	0.2503		0.0436	0.0400	8.9	99.0
cis-1,3-Dichloropropene	Ave	0.4019	0.4726		0.0235	0.0200	17.6	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3263	0.3356		0.0411	0.0400	2.8	
Toluene	Ave	1.759	1.806		0.0205	0.0200	2.6	26.0
trans-1,3-Dichloropropene	Ave	0.3935	0.4606		0.0234	0.0200	17.1	50.0
Ethyl methacrylate	Ave	0.4261	0.4403		0.0207	0.0200	3.3	
1,1,2-Trichloroethane	Ave	0.3718	0.3920		0.0211	0.0200	5.4	29.0
Tetrachloroethene	Ave	0.3299	0.3182		0.0193	0.0200	-3.6	26.0
1,3-Dichloropropane	Ave	0.7474	0.7633		0.0204	0.0200	2.1	
2-Hexanone	Ave	0.2989	0.3224		0.0431	0.0400	7.9	
Chlorodibromomethane	Ave	0.2873	0.3246		0.0226	0.0200	13.0	33.0
Ethylene Dibromide	Ave	0.3726	0.3744		0.0201	0.0200	0.5	
Chlorobenzene	Ave	1.181	1.171		0.0198	0.0200	-0.9	34.0
1,1,1,2-Tetrachloroethane	Ave	0.2761	0.3027		0.0219	0.0200	9.6	
Ethylbenzene	Ave	0.5368	0.5360		0.0200	0.0200	-0.2	41.0
m-Xylene & p-Xylene	Ave	0.6492	0.6443		0.0199	0.0200	-0.7	
o-Xylene	Ave	0.6778	0.6604		0.0195	0.0200	-2.6	
Styrene	Ave	1.268	1.261		0.0199	0.0200	-0.6	
Bromoform	Ave	0.1753	0.1783		0.0203	0.0200	1.7	29.0
Isopropylbenzene	Ave	1.380	1.358		0.0197	0.0200	-1.6	
1,1,2,2-Tetrachloroethane	Ave	1.396	1.375		0.0197	0.0200	-1.5	39.0
Bromobenzene	Ave	1.120	1.133		0.0202	0.0200	1.2	
1,2,3-Trichloropropane	Ave	0.4517	0.4760		0.0211	0.0200	5.4	
trans-1,4-Dichloro-2-butene	Ave	0.3027	0.2645		0.0175	0.0200	-12.6	
N-Propylbenzene	Ave	0.8199	0.8392		0.0205	0.0200	2.4	
2-Chlorotoluene	Ave	0.8542	0.8475		0.0198	0.0200	-0.8	
1,3,5-Trimethylbenzene	Ave	2.741	2.583		0.0188	0.0200	-5.8	
4-Chlorotoluene	Ave	0.9498	0.9567		0.0201	0.0200	0.7	
tert-Butylbenzene	Ave	2.407	2.240		0.0186	0.0200	-6.9	
1,2,4-Trimethylbenzene	Ave	2.983	2.885		0.0193	0.0200	-3.3	
sec-Butylbenzene	Ave	3.193	3.025		0.0189	0.0200	-5.3	
1,3-Dichlorobenzene	Ave	1.895	1.773		0.0187	0.0200	-6.5	27.0
4-Isopropyltoluene	Ave	2.918	2.785		0.0191	0.0200	-4.6	
1,4-Dichlorobenzene	Ave	2.046	1.870		0.0183	0.0200	-8.6	37.0
n-Butylbenzene	Ave	2.470	2.315		0.0187	0.0200	-6.3	
1,2-Dichlorobenzene	Ave	2.052	1.893		0.0185	0.0200	-7.7	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.2349	0.2263		0.0193	0.0200	-3.6	
1,2,4-Trichlorobenzene	Ave	1.275	1.134		0.0178	0.0200	-11.0	
Hexachlorobutadiene	Ave	0.4878	0.3999		0.0164	0.0200	-18.0	
Naphthalene	Ave	4.264	3.929		0.0184	0.0200	-7.9	
1,2,3-Trichlorobenzene	Ave	1.316	1.091		0.0166	0.0200	-17.2	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Lab Sample ID: CCVIS 240-202577/3 Calibration Date: 10/19/2015 15:43

Instrument ID: A3UX12 Calib Start Date: 09/29/2015 19:02

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 09/29/2015 20:57

Lab File ID: U1246947.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-Dichloroethane-d4 (Surr)	Ave	0.3429	0.3449		0.0166	0.0165	0.6	20.0
Toluene-d8 (Surr)	Ave	1.469	1.392		0.0157	0.0165	-5.3	
4-Bromofluorobenzene (Surr)	Ave	0.5457	0.4396		0.0133	0.0165	-19.5	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-56702-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-202577/7

Matrix: Water | Lab File ID: U1246951.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/19/2015 17:12

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.: 202577 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-202577/7

Matrix: Water Lab File ID: U1246951.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/19/2015 17:12

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.: 202577 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		78-125
2037-26-5	Toluene-d8 (Surr)	97		80-120
460-00-4	4-Bromofluorobenzene (Surr)	87		61-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-56702-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-202577/6

Matrix: Water | Lab File ID: U1246948.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 10/19/2015 16:06

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.: 202577 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.5		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	21.6		1.0	0.22
79-00-5	1,1,2-Trichloroethane	21.0		1.0	0.24
75-34-3	1,1-Dichloroethane	21.0		1.0	0.30
75-35-4	1,1-Dichloroethene	20.6		1.0	0.45
95-50-1	1,2-Dichlorobenzene	19.4		1.0	0.25
107-06-2	1,2-Dichloroethane	20.3		1.0	0.23
78-87-5	1,2-Dichloropropane	20.9		1.0	0.25
541-73-1	1,3-Dichlorobenzene	19.7		1.0	0.19
106-46-7	1,4-Dichlorobenzene	19.8		1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	21.2		2.0	0.59
107-02-8	Acrolein	124		20	4.5
107-13-1	Acrylonitrile	197		20	6.3
71-43-2	Benzene	20.1		1.0	0.35
75-25-2	Bromoform	20.7		1.0	0.56
74-83-9	Bromomethane	17.6		2.0	0.44
56-23-5	Carbon tetrachloride	23.4		1.0	0.43
108-90-7	Chlorobenzene	19.4		1.0	0.25
124-48-1	Chlorodibromomethane	22.9		1.0	0.43
75-00-3	Chloroethane	19.3		2.0	0.32
67-66-3	Chloroform	19.4		1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	23.9		1.0	0.46
75-27-4	Dichlorobromomethane	20.9		1.0	0.29
100-41-4	Ethylbenzene	19.3		1.0	0.25
75-09-2	Methylene Chloride	20.8		2.0	0.33
127-18-4	Tetrachloroethene	19.6		1.0	0.31
108-88-3	Toluene	19.9		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	21.1		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	26.8		1.0	0.56
79-01-6	Trichloroethene	20.4		1.0	0.22
75-69-4	Trichlorofluoromethane	21.9		2.0	0.49
75-01-4	Vinyl chloride	19.2		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-202577/6

Matrix: Water Lab File ID: U1246948.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 10/19/2015 16:06

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.: 202577 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		78-125
2037-26-5	Toluene-d8 (Surr)	102		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		61-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-56702-1

SDG No.:

Client Sample ID: | Lab Sample ID: 190-8688-G-2 MS

Matrix: Water | Lab File ID: U1246982.D

Analysis Method: 624 | Date Collected: 10/13/2015 09:17

Sample wt/vol: 1(mL) | Date Analyzed: 10/20/2015 05:05

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.: 202577 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	64.3		5.0	2.2
79-34-5	1,1,2,2-Tetrachloroethane	56.5		5.0	1.1
79-00-5	1,1,2-Trichloroethane	57.0		5.0	1.2
75-34-3	1,1-Dichloroethane	59.8		5.0	1.5
75-35-4	1,1-Dichloroethene	66.2		5.0	2.3
95-50-1	1,2-Dichlorobenzene	52.1		5.0	1.3
107-06-2	1,2-Dichloroethane	61.6		5.0	1.2
78-87-5	1,2-Dichloropropane	60.1		5.0	1.3
541-73-1	1,3-Dichlorobenzene	52.1		5.0	0.95
106-46-7	1,4-Dichlorobenzene	52.3		5.0	1.4
110-75-8	2-Chloroethyl vinyl ether	3.0	U	10	3.0
107-02-8	Acrolein	474		100	23
107-13-1	Acrylonitrile	534		100	32
71-43-2	Benzene	59.7		5.0	1.8
75-25-2	Bromoform	28.5		5.0	2.8
74-83-9	Bromomethane	62.0		10	2.2
56-23-5	Carbon tetrachloride	56.3		5.0	2.2
108-90-7	Chlorobenzene	55.8		5.0	1.3
124-48-1	Chlorodibromomethane	42.4		5.0	2.2
75-00-3	Chloroethane	69.8		10	1.6
67-66-3	Chloroform	131		5.0	1.3
10061-01-5	cis-1,3-Dichloropropene	53.5		5.0	2.3
75-27-4	Dichlorobromomethane	50.1		5.0	1.5
100-41-4	Ethylbenzene	55.1		5.0	1.3
75-09-2	Methylene Chloride	61.0		10	1.7
127-18-4	Tetrachloroethene	53.4		5.0	1.6
108-88-3	Toluene	56.1		5.0	1.2
156-60-5	trans-1,2-Dichloroethene	62.9		2.5	1.5
10061-02-6	trans-1,3-Dichloropropene	50.2		5.0	2.8
79-01-6	Trichloroethene	61.9		5.0	1.1
75-69-4	Trichlorofluoromethane	74.5		10	2.5
75-01-4	Vinyl chloride	67.7		10	1.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Client Sample ID: Lab Sample ID: 190-8688-G-2 MS

Matrix: Water Lab File ID: U1246982.D

Analysis Method: 624 Date Collected: 10/13/2015 09:17

Sample wt/vol: 1(mL) Date Analyzed: 10/20/2015 05:05

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.: 202577 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		78-125
2037-26-5	Toluene-d8 (Surr)	92		80-120
460-00-4	4-Bromofluorobenzene (Surr)	78		61-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Instrument ID: A3UX12 Start Date: 09/29/2015 18:33

Analysis Batch Number: 199622 End Date: 09/30/2015 16:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-199622/2		09/29/2015 18:33	1	BFB3056.D	DB-624 0.18(mm)
STD8260 240-199622/7 IC		09/29/2015 19:02	1	U1246599.D	DB-624 0.18(mm)
STD8260 240-199622/8 IC		09/29/2015 19:26	1	U1246600.D	DB-624 0.18(mm)
STD8260 240-199622/9 IC		09/29/2015 19:47	1	U1246601.D	DB-624 0.18(mm)
ICIS 240-199622/10		09/29/2015 20:11	1	U1246602.D	DB-624 0.18(mm)
STD8260 240-199622/11 IC		09/29/2015 20:35	1	U1246603.D	DB-624 0.18(mm)
STD8260 240-199622/12 IC		09/29/2015 20:57	1	U1246604.D	DB-624 0.18(mm)
ZZZZZ		09/29/2015 22:57	1		DB-624 0.18(mm)
ZZZZZ		09/29/2015 23:20	1		DB-624 0.18(mm)
ZZZZZ		09/30/2015 16:10	1		DB-624 0.18(mm)

624

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Instrument ID: A3UX12 Start Date: 10/19/2015 15:10

Analysis Batch Number: 202577 End Date: 10/20/2015 05:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-202577/1		10/19/2015 15:10	1	BFB3070.D	DB-624 0.18(mm)
CCVIS 240-202577/3		10/19/2015 15:43	1	U1246947.D	DB-624 0.18(mm)
LCS 240-202577/6		10/19/2015 16:06	1	U1246948.D	DB-624 0.18(mm)
CCV 240-202577/4		10/19/2015 16:27	1	U1246949.D	DB-624 0.18(mm)
MB 240-202577/7		10/19/2015 17:12	1	U1246951.D	DB-624 0.18(mm)
ZZZZZ		10/19/2015 21:15	1		DB-624 0.18(mm)
240-56702-1	DSP-9-101515	10/19/2015 21:37	1	U1246963.D	DB-624 0.18(mm)
ZZZZZ		10/19/2015 22:01	1		DB-624 0.18(mm)
ZZZZZ		10/19/2015 22:24	1		DB-624 0.18(mm)
ZZZZZ		10/19/2015 22:48	1		DB-624 0.18(mm)
ZZZZZ		10/19/2015 23:11	1		DB-624 0.18(mm)
ZZZZZ		10/19/2015 23:35	1		DB-624 0.18(mm)
ZZZZZ		10/19/2015 23:58	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 00:22	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 00:45	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 01:09	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 01:32	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 01:56	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 02:20	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 02:43	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 03:07	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 03:31	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 03:54	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 04:18	1		DB-624 0.18(mm)
ZZZZZ		10/20/2015 04:41	1		DB-624 0.18(mm)
190-8688-G-2 MS		10/20/2015 05:05	1	U1246982.D	DB-624 0.18(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-56702-1

SDG No.:

Project: LM MRC Block E

Client Sample ID	Lab Sample ID
DSP-9-101515	240-56702-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DSP-9-101515 Lab Sample ID: 240-56702-1

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG ID.:

Matrix: Water Date Sampled: 10/15/2015 13:10

Reporting Basis: WET Date Received: 10/16/2015 09:30

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	pH	7.08	0.100	0.100	SU		HF	1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Analyst: JWW Batch Start Date: 10/19/2015

Reporting Units: SU Analytical Batch No.: 202585

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
17	CCV	14:56	pH	7.000	7.00	100	99-101		WCPH7_00073
25	CCV	20:58	pH	7.030	7.00	100	99-101		WCPH7_00073

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

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 202585 Date: 10/19/2015 14:56								
4500 H+ B-2000		240-56739-E-2	pH	7.00	SU			
4500 H+ B-2000		240-56739-E-2 DU	pH	7.020	SU	0.3	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 202585	Date: 10/19/2015 14:56										
						LCS Source: WCPHLCS_00010					
4500 H+ B-2000	LCS 240-202585/18	pH	6.190		SU	6.15	101	97-103			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-56702-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-56702-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 10/19/2015 14:56 End Date: 10/19/2015 20:58

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-202585/1			14:56																				
ZZZZZZ			14:56																				
ZZZZZZ			14:56																				
ZZZZZZ			14:56																				
ZZZZZZ			14:56																				
ZZZZZZ			14:56																				
ZZZZZZ			14:56																				
ZZZZZZ			14:56																				
CCV 240-202585/9			14:56																				
ZZZZZZ			14:56																				
CCV 240-202585/11			14:56																				
ZZZZZZ			14:56																				
ZZZZZZ			14:56																				
ZZZZZZ			14:56																				
ZZZZZZ			14:56																				
ZZZZZZ			14:56																				
CCV 240-202585/17	1		14:56	X																			
LCS 240-202585/18	1	T	14:56	X																			
ZZZZZZ			14:56																				
240-56739-E-2 DU	1	T	14:56	X																			
ZZZZZZ			20:58																				
240-56702-1	1	T	20:58	X																			
ZZZZZZ			20:58																				
ZZZZZZ			20:58																				
CCV 240-202585/25	1		20:58	X																			
ZZZZZZ			20:58																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Batch Number: 202585 Batch Start Date: 10/19/15 14:56 Batch Analyst: Weimer, Joshua W

Batch Method: 4500 H+ B-2000 Batch End Date: 10/19/15 21:58

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-202585/17		4500 H+ B-2000		10 mL	7.0 SU	17.9 Celsius			pH = Read 1
LCS 240-202585/18		4500 H+ B-2000		10 mL	6.19 SU	17.8 Celsius			pH = Read 1
240-56739-E-2 DU		4500 H+ B-2000	T	10 mL	7.00 SU	18.1 Celsius	7.02 SU	18.1 Celsius	Read 2 Pass
240-56702-D-1	DSP-9-101515	4500 H+ B-2000	T	10 mL	7.01 SU	18.0 Celsius	7.08 SU	18.0 Celsius	Read 2 Pass
CCV 240-202585/25		4500 H+ B-2000		10 mL	7.03 SU	18.2 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00073	WCPHLCS 00010				
CCV 240-202585/17		4500 H+ B-2000		10 mL					
LCS 240-202585/18		4500 H+ B-2000			10 mL				
240-56739-E-2 DU		4500 H+ B-2000	T						
240-56702-D-1	DSP-9-101515	4500 H+ B-2000	T						
CCV 240-202585/25		4500 H+ B-2000		10 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-56702-1

SDG No.:

Batch Number: 202585 Batch Start Date: 10/19/15 14:56 Batch Analyst: Weimer, Joshua W

Batch Method: 4500 H+ B-2000 Batch End Date: 10/19/15 21:58

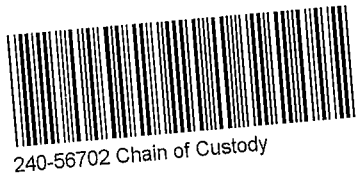
Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1838816
pH Buffer 2 ID	4-2124388
pH Buffer 3 ID	7-1896764
pH Buffer 4 ID	10-2124389
pH Buffer 5 ID	12-2125110
Calibration Date and Time	10/19/15; 14:00
Electronic Slope	99.3
Instrument ID	Randolph
Pipette ID	B4
Probe ID	WCP108
Sufficient volume for sample dup	Y
ID number of the thermometer	100.2%

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

Chain of Custody Record

016134

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Pike	Site Contact: Sto Cameron	Date: 10/15/15	COC No:
Company Name: Tetra Tech	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
Address: 20251 Century Blvd Ste 200	Analysis Turnaround Time			Sampler:
City/State/Zip: Germantown MD 20874	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (301) 528-5552	TAT if different from Below 5 Days			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: MRC MPE	☐ 1 week			
Site: Middle River Complex, Block E, MD	☐ 2 days			Job / SDG No.:
P O # 112IC04769	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs - PP	PH	Sample Specific Notes:
DSP-9-101515	10/15/15	1310	G	AQ	4	N	N	3	1	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ 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:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Tetra Tech	10/15/15-1400	[signature]	TestAmerica	10-15-2015/1440
[signature]	TestAmerica	10-15-2015/1600	[signature]	TA Canton	10/16/15 930
			Received in Laboratory by:		

TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 2002

Client Tetra Tech Site Name _____ Cooler unpacked by: [signature]

Cooler Received on 10/16/15 Opened on 10/16/15

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
   - IR GUN# A (CF +1.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   - ~~IR GUN# 4 (CF +0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~
   - ~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~
   - IR GUN# 8 (CF -1.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

☑ See Multiple Cooler Form

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 3 Yes No
   - -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   - -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
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 correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC554612
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ 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 the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica Multiple Cooler Receipt Form/Narrative
Canton Facility

Login # : 9[illegible]

Cooler #	IR Gun #	Observed Temp °C	Corrected Temp °C	Coolant
Client	8	2.0	0.5	wet Ice
↓	↓	1.6	0.1	↓
		1.8	0-5	

11/17/2015 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-58048-1

Job Description: LM MRC (Block E)

For:
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Pittsburgh, PA 15220-2745

Attention: Chris Pike



Approved for release.
John McFadden
Project Manager I
11/23/2015 12:00 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
11/23/2015

cc: Tony Apanavage
Samantha Brenner
Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: LM MRC (Block E)

Report Number: 240-58048-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT
The sample was received on 11/18/2015 10:00 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4º C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)
Sample DSP-10-111715 (240-58048-1) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The sample was analyzed on 11/19/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Sample DSP-10-111715 (240-58048-1) was analyzed for pH in accordance with SM 4500 H+ B. The sample was analyzed on 11/18/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-58048-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-58048-1	DSP-10-111715	Water	11/17/2015 1240	11/18/2015 1000

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-58048-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-58048-1	**DSP-10-111715**					
pH		6.56		0.100	SU	4500 H+ B-2000

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-58048-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
pH	TAL CAN	SM 4500 H+ B-2000	

Lab References:

TAL CAN = TestAmerica Canton

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-58048-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
SM 4500 H+ B-2000	Weimer, Joshua W	JWW

Client: Tetra Tech, Inc. Job Number: 240-58048-1

Client Sample ID: DSP-10-111715

Lab Sample ID: 240-58048-1 Date Sampled: 11/17/2015 1240
Client Matrix: Water Date Received: 11/18/2015 1000

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-207455	Instrument ID:	A3UX9
	N/A	Prep Batch:	N/A	Lab File ID:	UX953397.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/19/2015 1441			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	81		78 - 125
Toluene-d8 (Surr)	85		80 - 120
4-Bromofluorobenzene (Surr)	83		61 - 120

General Chemistry

Client Sample ID: **DSP-10-111715**

Lab Sample ID: 240-58048-1 Date Sampled: 11/17/2015 1240
Client Matrix: Water Date Received: 11/18/2015 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
pH	6.56		SU	0.100	0.100	1.0	4500 H+ B-2000

Analysis Batch: 240-207319 Analysis Date: 11/18/2015 1200

Client: Tetra Tech, Inc. Job Number: 240-58048-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
240-58048-1	DSP-10-111715	81	85	83
MB 240-207455/5		80	86	77
LCS 240-207455/6		79	88	86
240-57936-B-1 MS		79	83	79

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	61-120

Client: Tetra Tech, Inc. Job Number: 240-58048-1

Method Blank - Batch: 240-207455

Method: 624
Preparation: N/A

Lab Sample ID:	MB 240-207455/5	Analysis Batch:	240-207455	Instrument ID:	A3UX9
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX953367.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2015 1846	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	80	78 - 125
Toluene-d8 (Surr)	86	80 - 120
4-Bromofluorobenzene (Surr)	77	61 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	86	61 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	79	61 - 120

Client: Tetra Tech, Inc. Job Number: 240-58048-1

Lab Control Sample - Batch: 240-207319

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-207319/2	Analysis Batch:	240-207319	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/18/2015 0919	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.15	6.140	100	97 - 103	

Duplicate - Batch: 240-207319

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-58044-F-1 DU	Analysis Batch:	240-207319	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	11/18/2015 1200	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	7.54	7.440	1	20	

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-58048-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.

Client: Tetra Tech, Inc. Job Number: 240-58048-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-207455					
LCS 240-207455/6	Lab Control Sample	T	Water	624	
MB 240-207455/5	Method Blank	T	Water	624	
240-57936-B-1 MS	Matrix Spike	T	Water	624	
240-58048-1	DSP-10-111715	T	Water	624	

Report Basis
T = Total

General Chemistry					
Analysis Batch:240-207319					
LCS 240-207319/2	Lab Control Sample	T	Water	4500 H+ B-2000	
240-58044-F-1 DU	Duplicate	T	Water	4500 H+ B-2000	
240-58048-1	DSP-10-111715	T	Water	4500 H+ B-2000	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-58048-1

Laboratory Chronicle

Lab ID: 240-58048-1 **Client ID: DSP-10-111715**

Sample Date/Time: 11/17/2015 12:40 Received Date/Time: 11/18/2015 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-58048-A-1		240-207455		11/19/2015 14:41	1	TAL CAN	TJL1
A:4500 H+ B-2000	240-58048-D-1		240-207319		11/18/2015 12:00	1	TAL CAN	JWW

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-207455/5		240-207455		11/18/2015 18:46	1	TAL CAN	TJL1

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-207455/6		240-207455		11/18/2015 18:03	1	TAL CAN	TJL1
A:4500 H+ B-2000	LCS 240-207319/2		240-207319		11/18/2015 09:19	1	TAL CAN	JWW

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 11/13/2015 11:40 Received Date/Time: 11/14/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-57936-B-1 MS		240-207455		11/19/2015 05:51	4	TAL CAN	TJL1

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 11/17/2015 14:10 Received Date/Time: 11/18/2015 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-58044-F-1 DU		240-207319		11/18/2015 12:00	1	TAL CAN	JWW

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_00025	12/19/15	06/19/15	MEOH, Lot 85233	50 mL	vm30241_00003	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00003	04/30/20		restek, Lot A0110589		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100is_stk_00026	04/14/16	10/14/15	MEOH, Lot 99494	50 mL	vm30241_00003	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00003	04/30/20		restek, Lot A0110589		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100ss_stk_00021	03/22/16	09/21/15	MEOH, Lot 99494	100 mL	VM567650_00023	4 mL	1,2-Dichloroethane-d4 (Surr)	100 ug/mL
							4-Bromofluorobenzene (Surr)	100 ug/mL
							Toluene-d8 (Surr)	100 ug/mL
.VM567650_00023	06/30/19		Restek, Lot A0104073		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00218	11/04/15	10/28/15	MEOH, Lot na	2 mL	vm50ss_stk_00067	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00067	04/05/16	10/05/15	MEOH, Lot 0000099494	200 mL	VM567650_00023	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00023	06/30/19		Restek, Lot A0104073		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00220	11/23/15	11/16/15	MEOH, Lot na	2 mL	vm50ss_stk_00067	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00067	04/05/16	10/05/15	MEOH, Lot 0000099494	200 mL	VM567650_00023	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00023	06/30/19		Restek, Lot A0104073		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00122	10/31/15	10/25/15	MEOH, Lot na	3 mL	VMACROLSTD_00030	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00030	10/31/15	10/01/15	MEOH, Lot 0000099494	20 mL	VM568720_00009	250 uL	Acrolein	250 ug/mL
..VM568720_00009	11/30/15		restek, Lot A0112264		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00125	11/23/15	11/16/15	MEOH, Lot na	3 mL	VMACROLSTD_00031	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00031	11/30/15	11/01/15	MEOH, Lot 0000118655	20 mL	VM568720_00009	250 uL	Acrolein	250 ug/mL
..VM568720_00009	11/30/15		restek, Lot A0112264		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00110	11/23/15	11/16/15	MEOH, Lot NA	2 mL	VMFASA_00021	2 mL	Acrolein	250 ug/mL
.VMFASA_00021	12/31/15	11/01/15	MEOH, Lot 0000118655	100 mL	VM568720S_00010	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00010	01/31/16		restek, Lot A0113753		(Purchased Reagent)		Acrolein	20000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
VMFASGW_00123	11/19/15	11/12/15	MEOH, Lot NA	2 mL	VMFASG_00035	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.VMFASG_00035	11/30/15	10/27/15	MEOH, Lot 0000118655	50 mL	VM567645S_00016	1.25 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..VM567645S_00016	11/30/15	Restek, Lot A099261			(Purchased Reagent)		Bromomethane	2000 ug/mL
							Chloroethane	2000 ug/mL
							Trichlorofluoromethane	2000 ug/mL
							Vinyl chloride	2000 ug/mL
VMFASPW_00126	11/19/15	11/12/15	MEOH, Lot n/a	2 mL	VMRFASP_00024	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
.VMRFASP_00024	01/31/16	11/01/15	MEOH, Lot 0000118655	100 mL	VM567641S_00007	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM569723S_00001	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM569723S_00001	01/31/18		Restek, Lot A0108188		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
VMRGAS_00123	10/30/15	10/23/15	MEOH, Lot 0000099494	10 mL	vm569722_00003	0.2 mL	Bromomethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00003	04/30/18		Restek, Lot A0110070		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00126	11/20/15	11/13/15	MEOH, Lot 0000118655	10 mL	vm569722_00003	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00003	04/30/18		Restek, Lot A0110070		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00153	10/30/15	10/23/15	MEOH, Lot NA	1 mL	VMRPRIM_00013	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
.VMRPRIM_00013	10/31/15	09/01/15	MEOH, Lot 147358	50 mL	VM567641_00013	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00015	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00002	0.5 mL	Vinyl acetate	50 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00015	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM569724_00002	10/31/15		Restek, Lot A0110407		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VMRPRIMW_00157	11/23/15	11/16/15	MEOH, Lot NA	1 mL	VMRPRIM_00014	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00014	01/31/16	11/01/15	MEOH, Lot 0000118655	50 mL	VM567641_00013	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichloroethene	50 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00013	02/29/16	restek, Lot A093581			(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00020	02/29/16	restek, Lot A093368			(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCPH7_00086	08/31/17	Fisher Scientific, Lot 155105			(Purchased Reagent)		pH	7 SU
WCPHLCS_00010	08/31/16	Phenova, Lot 8137-15			(Purchased Reagent)		pH	6.15 SU

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-58048-1
Project/Site: LM MRC (Block E)

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	Kentucky (WW)	State Program	4	98016
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Oregon	NELAP	10	4062
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	T104704517-15-5
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL_UP

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
DSP-10-111715	240-58048-1	81	85	83
	MB 240-207455/5	80	86	77
	LCS 240-207455/6	79	88	86
	240-57936-B-1 MS	79	83	79

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	61-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Lab File ID: UX953367.D Lab Sample ID: MB 240-207455/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX9 Date Analyzed: 11/18/2015 18:46

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 240-207455/6	UX953365.D	11/18/2015 18:03
	240-57936-B-1 MS	UX953396.D	11/19/2015 05:51
DSP-10-111715	240-58048-1	UX953397.D	11/19/2015 14:41

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Lab File ID: BFB3133.D BFB Injection Date: 10/28/2015

Instrument ID: A3UX9 BFB Injection Time: 18:25

Analysis Batch No.: 204197

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.1	
75	30.0 - 60.0 % of mass 95	51.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.0	
173	Less than 2.0 % of mass 174	0.9	(1.3) 1
174	50.0 - 120.00 % of mass 95	73.3	
175	5.0 - 9.0 % of mass 174	5.6	(7.6) 1
176	95.0 - 101.0 % of mass 174	70.5	(96.2) 1
177	5.0 - 9.0 % of mass 176	4.2	(5.9) 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 240-204197/6	UX952969.D	10/28/2015	20:07
	STD8260 240-204197/7	UX952970.D	10/28/2015	20:31
	ICIS 240-204197/8	UX952971.D	10/28/2015	20:54
	STD8260 240-204197/9	UX952972.D	10/28/2015	21:17
	STD8260 240-204197/10	UX952973.D	10/28/2015	21:41
	STD8260 240-204197/11	UX952974.D	10/28/2015	22:04

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Lab File ID: BFB3154.D BFB Injection Date: 11/18/2015

Instrument ID: A3UX9 BFB Injection Time: 16:59

Analysis Batch No.: 207455

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.7	
75	30.0 - 60.0 % of mass 95	48.7	
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	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	81.5	
175	5.0 - 9.0 % of mass 174	6.0	(7.3) 1
176	95.0 - 101.0 % of mass 174	78.3	(96.1) 1
177	5.0 - 9.0 % of mass 176	5.2	(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 240-207455/3	UX953364.D	11/18/2015	17:32
	LCS 240-207455/6	UX953365.D	11/18/2015	18:03
	CCV 240-207455/4	UX953366.D	11/18/2015	18:24
	MB 240-207455/5	UX953367.D	11/18/2015	18:46
	240-57936-B-1 MS	UX953396.D	11/19/2015	05:51
DSP-10-111715	240-58048-1	UX953397.D	11/19/2015	14:41

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Sample No.: ICIS 240-204197/8 Date Analyzed: 10/28/2015 20:54

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX952971.D Heated Purge: (Y/N) N

Calibration ID: 31163

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		818984	5.40	635663	8.08	298642	10.31
UPPER LIMIT		1637968	5.90	1271326	8.58	597284	10.81
LOWER LIMIT		409492	4.90	317832	7.58	149321	9.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 240-207455/3		882903	5.40	703860	8.08	314469	10.31

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 624

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Sample No.: CCVIS 240-207455/3 Date Analyzed: 11/18/2015 17:32

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX953364.D Heated Purge: (Y/N) N

Calibration ID: 31163

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		882903	5.40	703860	8.08	314469	10.31
UPPER LIMIT		1765806	5.90	1407720	8.58	628938	10.81
LOWER LIMIT		441452	4.90	351930	7.58	157235	9.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-207455/6		867900	5.41	666508	8.08	318701	10.32
CCV 240-207455/4		903186	5.40	725896	8.08	321147	10.32
MB 240-207455/5		906978	5.41	717380	8.08	302333	10.32
240-57936-B-1 MS		877623	5.41	700813	8.08	318373	10.32
240-58048-1	DSP-10-111715	873864	5.40	680049	8.08	288859	10.32

FB = Fluorobenzene
FB = Fluorobenzene
CBZ = Chlorobenzene-d5
CBZ = Chlorobenzene-d5
DCB = 1,4-Dichlorobenzene-d4
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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-58048-1

SDG No.:

Client Sample ID: DSP-10-111715 | Lab Sample ID: 240-58048-1

Matrix: Water | Lab File ID: UX953397.D

Analysis Method: 624 | Date Collected: 11/17/2015 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 11/19/2015 14:41

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.: 207455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-58048-1

SDG No.:

Client Sample ID: DSP-10-111715 | Lab Sample ID: 240-58048-1

Matrix: Water | Lab File ID: UX953397.D

Analysis Method: 624 | Date Collected: 11/17/2015 12:40

Sample wt/vol: 5(mL) | Date Analyzed: 11/19/2015 14:41

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.: 207455 | Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	81		78-125
2037-26-5	Toluene-d8 (Surr)	85		80-120
460-00-4	4-Bromofluorobenzene (Surr)	83		61-120

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-58048-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-204197/11	UX952974.D
Level 2	STD8260 240-204197/10	UX952973.D
Level 3	STD8260 240-204197/9	UX952972.D
Level 4	ICIS 240-204197/8	UX952971.D
Level 5	STD8260 240-204197/7	UX952970.D
Level 6	STD8260 240-204197/6	UX952969.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	+++++ 0.5399	0.2979	0.4108	0.4480	0.5059	Ave		0.4405				21.4		35.0			
Chloromethane	0.5048 0.5269	0.5164	0.5183	0.5203	0.5251	Ave		0.5186				1.5		35.0			
Vinyl chloride	0.4501 0.5467	0.4743	0.5091	0.5317	0.5378	Ave		0.5083				7.6		35.0			
Bromomethane	0.2423 0.3466	0.2548	0.3096	0.3197	0.3327	Ave		0.3009				14.2		35.0			
Chloroethane	0.2162 0.3815	0.2916	0.3482	0.3618	0.3595	Ave		0.3265				19.0		35.0			
Dichlorofluoromethane	0.5022 0.8544	0.7562	0.8263	0.8269	0.8159	Ave		0.7637				17.3		35.0			
Trichlorofluoromethane	0.4154 0.6527	0.4366	0.5585	0.5879	0.6132	Ave		0.5440				17.8		35.0			
Acrolein	0.0427 0.0389	0.0318	0.0363	0.0366	0.0388	Ave		0.0375				9.6		35.0			
Acetone	+++++ 0.1244	0.3158	0.1522	0.1195	0.1228	Lin1	0.3963	0.1199							0.9980		0.9900
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1102 0.3933	0.2992	0.3293	0.3512	0.3634	Ave		0.3078				33.1		35.0			
1,1-Dichloroethene	0.5272 0.8254	0.6344	0.6551	0.7309	0.7771	Ave		0.6917				15.6		35.0			
Carbon disulfide	0.5860 1.6716	1.4363	1.4027	1.5202	1.5777	Ave		1.3658				28.9		35.0			
Methyl acetate	0.3559 0.3123	0.2894	0.2881	0.2916	0.3066	Ave		0.3073				8.4		35.0			
Methylene Chloride	+++++ 0.6316	0.7927	0.5612	0.5758	0.5756	Ave		0.6274				15.3		35.0			
Acrylonitrile	0.1521 0.1587	0.1444	0.1453	0.1447	0.1550	Ave		0.1500				4.1		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-58048-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

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								
Methyl tert-butyl ether	1.0741 1.2979	1.2033	1.1641	1.1976	1.2298	Ave		1.1945				6.2		35.0			
trans-1,2-Dichloroethene	0.4578 0.5730	0.5308	0.4892	0.5130	0.5486	Ave		0.5187				8.0		35.0			
Hexane	0.4626 0.3780	0.4087	0.3373	0.3409	0.3717	Ave		0.3832				12.2		35.0			
1,1-Dichloroethane	0.6458 0.6990	0.5882	0.6299	0.6444	0.6839	Ave		0.6485				6.1		35.0			
Vinyl acetate	0.6481 0.6521	0.5527	0.5486	0.5840	0.6126	Ave		0.5997				7.6		35.0			
2-Butanone (MEK)	0.1868 0.1760	0.1922	0.1606	0.1564	0.1671	Ave		0.1732				8.3		35.0			
cis-1,2-Dichloroethene	0.5237 0.5735	0.5146	0.5178	0.5206	0.5713	Ave		0.5369				5.2		35.0			
Chlorobromomethane	0.3219 0.3269	0.3458	0.3518	0.3081	0.3279	Ave		0.3304				4.9		35.0			
Chloroform	0.5843 0.6805	0.5972	0.6014	0.6237	0.6636	Ave		0.6251				6.2		35.0			
1,1,1-Trichloroethane	0.3477 0.4271	0.3562	0.4105	0.4262	0.4367	Ave		0.4007				9.7		35.0			
Cyclohexane	0.2809 0.3165	0.3893	0.3626	0.4055	0.3349	Ave		0.3483				13.4		35.0			
1,1-Dichloropropene	0.4672 0.4986	0.4408	0.4381	0.4461	0.4807	Ave		0.4619				5.3		35.0			
Carbon tetrachloride	0.2695 0.3417	0.2607	0.2942	0.3110	0.3334	Ave		0.3017				11.0		35.0			
Isobutyl alcohol	0.0124 0.0149	0.0111	0.0128	0.0114	0.0139	Ave		0.0127				11.5		35.0			
Benzene	1.4788 1.6437	1.5949	1.4821	1.5584	1.6089	Ave		1.5611				4.4		35.0			
1,2-Dichloroethane	0.5591 0.5619	0.5436	0.5126	0.5143	0.5531	Ave		0.5408				4.1		35.0			
Trichloroethene	0.3935 0.4016	0.4441	0.3560	0.3618	0.3966	Ave		0.3923				8.1		35.0			
Methylcyclohexane	0.4467 0.4254	0.5292	0.4014	0.4284	0.4411	Ave		0.4454				9.9		35.0			
1,2-Dichloropropane	0.3322 0.3905	0.3553	0.3538	0.3619	0.3882	Ave		0.3637				6.1		35.0			
Dichlorobromomethane	0.4160 0.5613	0.4407	0.4739	0.4839	0.5392	Ave		0.4858				11.5		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-58048-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

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								
2-Chloroethyl vinyl ether	0.2533 0.2827	0.2279	0.2421	0.2583	0.2741	Ave		0.2564				7.9		35.0			
cis-1,3-Dichloropropene	0.6007 0.6811	0.5202	0.5630	0.6127	0.6696	Ave		0.6079				10.1		35.0			
4-Methyl-2-pentanone (MIBK)	0.3189 0.3806	0.3365	0.3405	0.3428	0.3642	Ave		0.3472				6.3		35.0			
Toluene	2.1772 2.2045	2.2939	2.0569	2.1273	2.1741	Ave		2.1723				3.6		35.0			
trans-1,3-Dichloropropene	0.5596 0.7702	0.6167	0.6448	0.7154	0.7402	Ave		0.6745				12.0		35.0			
1,1,2-Trichloroethane	0.3857 0.4735	0.4177	0.4299	0.4481	0.4482	Ave		0.4338				7.0		35.0			
Tetrachloroethene	0.4230 0.4401	0.4712	0.3898	0.4129	0.4127	Ave		0.4249				6.6		35.0			
1,3-Dichloropropane	0.8632 0.8705	0.8288	0.8025	0.8176	0.8544	Ave		0.8395				3.2		35.0			
2-Hexanone	0.2896 0.3318	0.2546	0.2946	0.2960	0.3192	Ave		0.2976				9.0		35.0			
Chlorodibromomethane	0.3458 0.4952	0.3904	0.4222	0.4462	0.4671	Ave		0.4278				12.6		35.0			
Ethylene Dibromide	0.4500 0.4722	0.3774	0.4270	0.4534	0.4677	Ave		0.4413				8.0		35.0			
Chlorobenzene	1.3064 1.4207	1.3250	1.2997	1.3436	1.3997	Ave		1.3492				3.7		35.0			
1,1,1,2-Tetrachloroethane	0.3401 0.4874	0.4624	0.4180	0.4486	0.4737	Ave		0.4384				12.2		35.0			
Ethylbenzene	0.6719 0.7499	0.6442	0.6570	0.6950	0.7320	Ave		0.6917				6.1		35.0			
m-Xylene & p-Xylene	0.8541 0.9241	0.8222	0.8345	0.8710	0.9042	Ave		0.8684				4.6		35.0			
o-Xylene	0.9386 0.9270	0.8053	0.8412	0.8706	0.9132	Ave		0.8826				6.0		35.0			
Styrene	1.3321 1.7201	1.4412	1.4015	1.5482	1.6580	Ave		1.5169				10.0		35.0			
Bromoform	+++++ 0.3287	0.1749	0.2567	0.2901	0.3119	Ave		0.2725				22.3		35.0			
Isopropylbenzene	1.8581 2.1060	2.0650	1.9240	2.0228	2.1127	Ave		2.0148				5.1		35.0			
1,1,2,2-Tetrachloroethane	1.1958 1.4218	1.3601	1.2834	1.3237	1.4439	Ave		1.3381				6.9		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-58048-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

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								
1,3,5-Trimethylbenzene	3.8546 3.8306	3.5701	3.4351	3.6076	3.9237	Ave		3.7036				5.2		35.0			
1,2,4-Trimethylbenzene	4.2367 4.0880	4.1544	3.6437	3.9165	4.1949	Ave		4.0390				5.5		35.0			
1,3-Dichlorobenzene	2.5735 2.2811	2.4118	2.0960	2.1673	2.2609	Ave		2.2984				7.5		35.0			
1,4-Dichlorobenzene	2.9806 2.3563	2.7849	2.1675	2.2521	2.3308	Ave		2.4787				13.1		35.0			
1,2-Dichlorobenzene	2.5471 2.2432	2.5464	2.0345	2.1087	2.2444	Ave		2.2874				9.5		35.0			
1,2,4-Trichlorobenzene	1.8638 1.3428	2.0621	1.3281	1.3462	1.3999	Ave		1.5571				20.6		35.0			
Naphthalene	4.3206 4.1053	4.4900	3.6020	3.8507	4.1375	Ave		4.0843				7.8		35.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.4897	0.4856	0.4138	0.4394	0.4485	Ave		0.4554				7.1		35.0			
Toluene-d8 (Surr)	+++++ 1.8677	1.8729	1.7509	1.7560	1.8457	Ave		1.8186				3.3		35.0			
4-Bromofluorobenzene (Surr)	+++++ 0.7203	0.7611	0.6108	0.6731	0.6913	Ave		0.6913				8.1		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-58048-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-204197/11	UX952974.D
Level 2	STD8260 240-204197/10	UX952973.D
Level 3	STD8260 240-204197/9	UX952972.D
Level 4	ICIS 240-204197/8	UX952971.D
Level 5	STD8260 240-204197/7	UX952970.D
Level 6	STD8260 240-204197/6	UX952969.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 1730609	12098	163329	366903	844261	+++++ 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	10526 1688895	20976	206095	426122	876183	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	9386 1752289	19265	202423	435488	897471	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	5053 1110904	10349	123088	261858	555150	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	4508 1222988	11844	138450	296295	599861	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	10473 2738553	30715	328559	677237	1361506	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	8662 2092121	17734	222046	481486	1023241	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	4448 623420	6462	72101	150070	323575	2.50 400	5.00	50.0	100	200
Acetone	FB	Lin1	+++++ 797501	25651	121060	195702	409871	+++++ 160	2.00	20.0	40.0	80.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2299 1260741	12152	130930	287615	606451	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethene	FB	Ave	10993 2645743	25767	260493	598595	1296817	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	12220 5358256	58340	557743	1245051	2632692	0.500 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	37109 5004977	58772	572791	1194038	2557962	2.50 400	5.00	50.0	100	200
Methylene Chloride	FB	Ave	+++++ 2024646	32197	223149	471600	960526	+++++ 80.0	1.00	10.0	20.0	40.0
Acrylonitrile	FB	Ave	31713 5086138	58663	577655	1185261	2586899	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	22398 4160248	48874	462858	980853	2052203	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-58048-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
trans-1,2-Dichloroethene	FB	Ave	9546 1836552	21561	194503	420155	915380	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	9647 1211643	16601	134114	279215	620192	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	13467 2240502	23892	250459	527742	1141137	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	13516 2090245	22449	218111	478307	1022198	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	7791 1128055	15614	127722	256257	557753	1.00 160	2.00	20.0	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	10920 1838299	20901	205884	426333	953272	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	6712 1047985	14044	139894	252319	547081	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	12184 2181272	24257	239121	510760	1107274	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	7250 1368942	14466	163223	349077	728775	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	5857 1014627	15813	144186	332063	558837	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	9742 1598265	17904	174190	365312	802222	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5619 1095204	10589	116987	254673	556272	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	6462 1192643	11257	127172	232918	581251	12.5 2000	25.0	250	500	1000
Benzene	FB	Ave	30838 5268746	64780	589301	1276282	2684782	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	11660 1801090	22080	203825	421227	922907	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	8206 1287264	18038	141542	296315	661761	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	9315 1363686	21495	159584	350843	736017	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	6927 1251626	14432	140694	296421	647753	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	8675 1799092	17902	188418	396282	899776	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	10564 1812318	18514	192502	423110	914802	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	12526 2183198	21128	223850	501754	1117342	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-58048-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methyl-2-pentanone (MIBK)	FB	Ave	13302 2439775	27335	270790	561438	1215448	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	35439 5656729	71961	644241	1352216	2878893	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	9108 1976316	19346	201973	454768	980178	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	6278 1214862	13104	134634	284849	593530	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	6885 1129310	14783	122087	262464	546417	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	14050 2233691	25999	251359	519694	1131367	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	9427 1702975	15972	184512	376252	845366	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	5628 1270692	12246	132225	283655	618480	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	7324 1211621	11840	133731	288235	619359	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	21265 3645425	41566	407084	854107	1853379	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	5536 1250736	14507	130931	285132	627245	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	10937 1924293	20209	205789	441808	969296	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	13902 2371187	25792	261387	553655	1197323	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	15278 2378590	25262	263485	553385	1209195	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	21683 4413733	45211	438968	984137	2195404	0.500 80.0	1.00	10.0	20.0	40.0
Bromoform	CBZ	Ave	+++++ 843406	5488	80392	184426	412996	+++++ 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	30245 5403902	64780	602615	1285848	2797614	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	8450 1649775	19000	183675	395324	852043	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	27238 4444866	49871	491633	1077383	2315324	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	29938 4743518	58033	521487	1169638	2475395	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	18185 2646907	33691	299973	647257	1334115	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-58048-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	21062 2734160	38902	310214	672579	1375405	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	17999 2602946	35571	291181	629742	1324425	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	13170 1558108	28806	190073	402025	826075	0.500 80.0	1.00	10.0	20.0	40.0
Naphthalene	DCB	Ave	30531 4763564	62721	515522	1149974	2441492	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 1569762	19723	164512	359880	748449	+++++ 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 4792280	58752	548392	1116231	2444032	+++++ 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	+++++ 1848206	23877	191296	427855	915390	+++++ 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Lab Sample ID: CCVIS 240-207455/3 Calibration Date: 11/18/2015 17:32

Instrument ID: A3UX9 Calib Start Date: 10/28/2015 20:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/28/2015 22:04

Lab File ID: UX953364.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	0.4405	0.4618		0.0210	0.0200	4.8	
Chloromethane	Ave	0.5186	0.5724		0.0221	0.0200	10.4	99.0
Vinyl chloride	Ave	0.5083	0.5453		0.0215	0.0200	7.3	96.0
Bromomethane	Ave	0.3009	0.3489		0.0232	0.0200	15.9	86.0
Chloroethane	Ave	0.3265	0.3976		0.0244	0.0200	21.8	62.0
Dichlorofluoromethane	Ave	0.7637	0.8634		0.0226	0.0200	13.1	
Trichlorofluoromethane	Ave	0.5440	0.6028		0.0222	0.0200	10.8	52.0
Ethyl ether	Ave	0.3502	0.3540		0.0202	0.0200	1.1	
Acrolein	Ave	0.0375	0.0377		0.100	0.100	0.4	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3078	0.3777		0.0245	0.0200	22.7	
1,1-Dichloroethene	Ave	0.6917	0.7379		0.0213	0.0200	6.7	49.0
Acetone	Lin1	0.1669	0.1357		0.0420	0.0400	5.0	
Iodomethane	Ave	0.5578	0.6417		0.0230	0.0200	15.0	
Carbon disulfide	Ave	1.366	0.8263		0.0121	0.0200	-39.5	
Methyl acetate	Ave	0.3073	0.3175		0.103	0.100	3.3	
Methylene Chloride	Ave	0.6274	0.6212		0.0198	0.0200	-1.0	39.0
2-Methyl-2-propanol	Ave	0.0372	0.0426		0.229	0.200	14.4	
Acrylonitrile	Ave	0.1500	0.1649		0.220	0.200	9.9	
Methyl tert-butyl ether	Ave	1.194	1.219		0.0204	0.0200	2.0	
trans-1,2-Dichloroethene	Ave	0.5187	0.5533		0.0213	0.0200	6.7	30.0
Hexane	Ave	0.3832	0.3411		0.0178	0.0200	-11.0	
1,1-Dichloroethane	Ave	0.6485	0.6549		0.0202	0.0200	1.0	27.0
Vinyl acetate	Ave	0.5997	0.7053		0.0235	0.0200	17.6	
2-Butanone (MEK)	Ave	0.1732	0.1744		0.0403	0.0400	0.7	
cis-1,2-Dichloroethene	Ave	0.5369	0.5455		0.0203	0.0200	1.6	
2,2-Dichloropropane	Ave	0.2809	0.2705		0.0193	0.0200	-3.7	
Chlorobromomethane	Ave	0.3304	0.3741		0.0226	0.0200	13.2	
Chloroform	Ave	0.6251	0.6300		0.0202	0.0200	0.8	33.0
1,1,1-Trichloroethane	Ave	0.4007	0.4322		0.0216	0.0200	7.9	25.0
Cyclohexane	Ave	0.3483	0.3321		0.0191	0.0200	-4.6	
1,1-Dichloropropene	Ave	0.4619	0.4635		0.0201	0.0200	0.3	
Carbon tetrachloride	Ave	0.3017	0.3550		0.0235	0.0200	17.7	27.0
Isobutyl alcohol	Ave	0.0127	0.0143		0.562	0.500	12.5	
Benzene	Ave	1.561	1.603		0.0205	0.0200	2.7	36.0
1,2-Dichloroethane	Ave	0.5408	0.5000		0.0185	0.0200	-7.5	32.0
Trichloroethene	Ave	0.3923	0.3691		0.0188	0.0200	-5.9	33.0
Methylcyclohexane	Ave	0.4454	0.3850		0.0173	0.0200	-13.6	
1,2-Dichloropropane	Ave	0.3637	0.3705		0.0204	0.0200	1.9	66.0
Dibromomethane	Ave	0.2123	0.2346		0.0221	0.0200	10.5	
Dichlorobromomethane	Ave	0.4858	0.5075		0.0209	0.0200	4.5	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Lab Sample ID: CCVIS 240-207455/3 Calibration Date: 11/18/2015 17:32

Instrument ID: A3UX9 Calib Start Date: 10/28/2015 20:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/28/2015 22:04

Lab File ID: UX953364.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	0.2564	0.2709		0.0423	0.0400	5.7	99.0
cis-1,3-Dichloropropene	Ave	0.6079	0.5987		0.0197	0.0200	-1.5	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3472	0.3710		0.0427	0.0400	6.8	
Toluene	Ave	2.172	2.094		0.0193	0.0200	-3.6	26.0
trans-1,3-Dichloropropene	Ave	0.6745	0.6888		0.0204	0.0200	2.1	50.0
Ethyl methacrylate	Ave	0.5933	0.6380		0.0215	0.0200	7.5	
1,1,2-Trichloroethane	Ave	0.4338	0.4378		0.0202	0.0200	0.9	29.0
1,3-Dichloropropane	Ave	0.8395	0.8281		0.0197	0.0200	-1.4	
Tetrachloroethene	Ave	0.4249	0.3902		0.0184	0.0200	-8.2	26.0
2-Hexanone	Ave	0.2976	0.3128		0.0420	0.0400	5.1	
Chlorodibromomethane	Ave	0.4278	0.4274		0.0200	0.0200	-0.0	33.0
Ethylene Dibromide	Ave	0.4413	0.4472		0.0203	0.0200	1.3	
Chlorobenzene	Ave	1.349	1.326		0.0197	0.0200	-1.7	34.0
1,1,1,2-Tetrachloroethane	Ave	0.4384	0.4431		0.0202	0.0200	1.1	
Ethylbenzene	Ave	0.6917	0.6744		0.0195	0.0200	-2.5	41.0
m-Xylene & p-Xylene	Ave	0.8684	0.8328		0.0192	0.0200	-4.1	
o-Xylene	Ave	0.8826	0.8359		0.0189	0.0200	-5.3	
Styrene	Ave	1.517	1.493		0.0197	0.0200	-1.6	
Bromoform	Ave	0.2725	0.2806		0.0206	0.0200	3.0	29.0
Isopropylbenzene	Ave	2.015	1.886		0.0187	0.0200	-6.4	
1,1,2,2-Tetrachloroethane	Ave	1.338	1.402		0.0210	0.0200	4.8	39.0
Bromobenzene	Ave	1.233	1.204		0.0195	0.0200	-2.3	
1,2,3-Trichloropropane	Ave	0.4625	0.4930		0.0213	0.0200	6.6	
trans-1,4-Dichloro-2-butene	Ave	0.4423	0.4124		0.0186	0.0200	-6.8	
N-Propylbenzene	Ave	1.214	1.112		0.0183	0.0200	-8.4	
2-Chlorotoluene	Ave	1.092	1.040		0.0191	0.0200	-4.7	
1,3,5-Trimethylbenzene	Ave	3.704	3.487		0.0188	0.0200	-5.8	
4-Chlorotoluene	Ave	1.143	1.110		0.0194	0.0200	-2.9	
tert-Butylbenzene	Ave	3.190	2.965		0.0186	0.0200	-7.1	
1,2,4-Trimethylbenzene	Ave	4.039	3.719		0.0184	0.0200	-7.9	
sec-Butylbenzene	Ave	0.9454	0.8213		0.0174	0.0200	-13.1	
1,3-Dichlorobenzene	Ave	2.298	2.197		0.0191	0.0200	-4.4	27.0
4-Isopropyltoluene	Ave	4.072	3.602		0.0177	0.0200	-11.5	
1,4-Dichlorobenzene	Ave	2.479	2.229		0.0180	0.0200	-10.1	37.0
n-Butylbenzene	Ave	3.854	3.134		0.0163	0.0200	-18.7	
1,2-Dichlorobenzene	Ave	2.287	2.156		0.0189	0.0200	-5.7	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.2472	0.2740		0.0222	0.0200	10.8	
1,2,4-Trichlorobenzene	Ave	1.557	1.261		0.0162	0.0200	-19.0	
Hexachlorobutadiene	Lin1	0.7871	0.4900		0.0164	0.0200	-18.2	
Naphthalene	Ave	4.084	3.833		0.0188	0.0200	-6.1	
1,2,3-Trichlorobenzene	Ave	1.388	1.190		0.0171	0.0200	-14.3	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Lab Sample ID: CCVIS 240-207455/3 Calibration Date: 11/18/2015 17:32

Instrument ID: A3UX9 Calib Start Date: 10/28/2015 20:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/28/2015 22:04

Lab File ID: UX953364.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-Dichloroethane-d4 (Surr)	Ave	0.4554	0.4168		0.0183	0.0200	-8.5	20.0
Toluene-d8 (Surr)	Ave	1.819	1.793		0.0197	0.0200	-1.4	
4-Bromofluorobenzene (Surr)	Ave	0.6913	0.6436		0.0186	0.0200	-6.9	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-58048-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-207455/5

Matrix: Water | Lab File ID: UX953367.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/18/2015 18:46

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.: 207455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-207455/5

Matrix: Water Lab File ID: UX953367.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2015 18:46

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.: 207455 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		78-125
2037-26-5	Toluene-d8 (Surr)	86		80-120
460-00-4	4-Bromofluorobenzene (Surr)	77		61-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-58048-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-207455/6

Matrix: Water | Lab File ID: UX953365.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 11/18/2015 18:03

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.: 207455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.9		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	21.1		1.0	0.22
79-00-5	1,1,2-Trichloroethane	20.9		1.0	0.24
75-34-3	1,1-Dichloroethane	20.9		1.0	0.30
75-35-4	1,1-Dichloroethene	21.1		1.0	0.45
95-50-1	1,2-Dichlorobenzene	19.3		1.0	0.25
107-06-2	1,2-Dichloroethane	19.5		1.0	0.23
78-87-5	1,2-Dichloropropane	20.5		1.0	0.25
541-73-1	1,3-Dichlorobenzene	18.6		1.0	0.19
106-46-7	1,4-Dichlorobenzene	18.0		1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	20.6		2.0	0.59
107-02-8	Acrolein	157		20	4.5
107-13-1	Acrylonitrile	221		20	6.3
71-43-2	Benzene	20.7		1.0	0.35
75-25-2	Bromoform	20.9		1.0	0.56
74-83-9	Bromomethane	23.0		2.0	0.44
56-23-5	Carbon tetrachloride	24.4		1.0	0.43
108-90-7	Chlorobenzene	20.3		1.0	0.25
124-48-1	Chlorodibromomethane	21.2		1.0	0.43
75-00-3	Chloroethane	23.9		2.0	0.32
67-66-3	Chloroform	20.9		1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	21.0		1.0	0.46
75-27-4	Dichlorobromomethane	20.6		1.0	0.29
100-41-4	Ethylbenzene	20.4		1.0	0.25
75-09-2	Methylene Chloride	19.9		2.0	0.33
127-18-4	Tetrachloroethene	19.3		1.0	0.31
108-88-3	Toluene	20.3		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	20.9		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	23.7		1.0	0.56
79-01-6	Trichloroethene	19.4		1.0	0.22
75-69-4	Trichlorofluoromethane	20.7		2.0	0.49
75-01-4	Vinyl chloride	20.2		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-207455/6

Matrix: Water Lab File ID: UX953365.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 11/18/2015 18:03

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.: 207455 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79		78-125
2037-26-5	Toluene-d8 (Surr)	88		80-120
460-00-4	4-Bromofluorobenzene (Surr)	86		61-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-58048-1

SDG No.:

Client Sample ID: | Lab Sample ID: 240-57936-B-1 MS

Matrix: Water | Lab File ID: UX953396.D

Analysis Method: 624 | Date Collected: 11/13/2015 11:40

Sample wt/vol: 1(mL) | Date Analyzed: 11/19/2015 05:51

Soil Aliquot Vol: | Dilution Factor: 4

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

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

Analysis Batch No.: 207455 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	1520		20	7.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	79		78-125
2037-26-5	Toluene-d8 (Surr)	83		80-120
460-00-4	4-Bromofluorobenzene (Surr)	79		61-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Instrument ID: A3UX9 Start Date: 10/28/2015 18:25

Analysis Batch Number: 204197 End Date: 10/29/2015 02:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-204197/1		10/28/2015 18:25	1	BFB3133.D	DB-624 0.18(mm)
CCV 240-204197/4		10/28/2015 19:16	1		DB-624 0.18(mm)
STD8260 240-204197/6 IC		10/28/2015 20:07	1	UX952969.D	DB-624 0.18(mm)
STD8260 240-204197/7 IC		10/28/2015 20:31	1	UX952970.D	DB-624 0.18(mm)
ICIS 240-204197/8		10/28/2015 20:54	1	UX952971.D	DB-624 0.18(mm)
STD8260 240-204197/9 IC		10/28/2015 21:17	1	UX952972.D	DB-624 0.18(mm)
STD8260 240-204197/10 IC		10/28/2015 21:41	1	UX952973.D	DB-624 0.18(mm)
STD8260 240-204197/11 IC		10/28/2015 22:04	1	UX952974.D	DB-624 0.18(mm)
ZZZZZ		10/29/2015 00:29	1		DB-624 0.18(mm)
ZZZZZ		10/29/2015 00:53	1		DB-624 0.18(mm)
ZZZZZ		10/29/2015 02:04	2		DB-624 0.18(mm)

624

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Instrument ID: A3UX9 Start Date: 11/18/2015 16:59

Analysis Batch Number: 207455 End Date: 11/19/2015 14:41

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-207455/2		11/18/2015 16:59	1	BFB3154.D	DB-624 0.18(mm)
CCVIS 240-207455/3		11/18/2015 17:32	1	UX953364.D	DB-624 0.18(mm)
LCS 240-207455/6		11/18/2015 18:03	1	UX953365.D	DB-624 0.18(mm)
CCV 240-207455/4		11/18/2015 18:24	1	UX953366.D	DB-624 0.18(mm)
MB 240-207455/5		11/18/2015 18:46	1	UX953367.D	DB-624 0.18(mm)
ZZZZZ		11/19/2015 01:15	1		DB-624 0.18(mm)
ZZZZZ		11/19/2015 01:38	1		DB-624 0.18(mm)
ZZZZZ		11/19/2015 02:01	2		DB-624 0.18(mm)
ZZZZZ		11/19/2015 02:24	1		DB-624 0.18(mm)
ZZZZZ		11/19/2015 02:47	4		DB-624 0.18(mm)
ZZZZZ		11/19/2015 03:10	1		DB-624 0.18(mm)
ZZZZZ		11/19/2015 03:33	1		DB-624 0.18(mm)
ZZZZZ		11/19/2015 03:56	1		DB-624 0.18(mm)
ZZZZZ		11/19/2015 04:19	1		DB-624 0.18(mm)
ZZZZZ		11/19/2015 04:42	1		DB-624 0.18(mm)
ZZZZZ		11/19/2015 05:05	1		DB-624 0.18(mm)
ZZZZZ		11/19/2015 05:28	2		DB-624 0.18(mm)
240-57936-B-1 MS		11/19/2015 05:51	4	UX953396.D	DB-624 0.18(mm)
240-58048-1	DSP-10-111715	11/19/2015 14:41	1	UX953397.D	DB-624 0.18(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-58048-1

SDG No.:

Project: LM MRC (Block E)

Client Sample ID	Lab Sample ID
DSP-10-111715	240-58048-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DSP-10-111715 Lab Sample ID: 240-58048-1

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG ID.:

Matrix: Water Date Sampled: 11/17/2015 12:40

Reporting Basis: WET Date Received: 11/18/2015 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	pH	6.56	0.100	0.100	SU			1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Analyst: JWW Batch Start Date: 11/18/2015

Reporting Units: SU Analytical Batch No.: 207319

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	09:19	pH	6.980	7.00	100	99-101		WCPH7_00086
7	CCV	09:19	pH	7.020	7.00	100	99-101		WCPH7_00086
13	CCV	09:19	pH	7.000	7.00	100	99-101		WCPH7_00086
21	CCV	16:43	pH	7.010	7.00	100	99-101		WCPH7_00086

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

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 207319 Date: 11/18/2015 12:00								
4500 H+ B-2000		240-58044-F-1	pH	7.54	SU			
4500 H+ B-2000		240-58044-F-1 DU	pH	7.440	SU	1	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 207319	Date: 11/18/2015 09:19										
						LCS Source: WCPHLCS_00010					
4500 H+ B-2000	LCS 240-207319/2	pH	6.140		SU	6.15	100	97-103			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-58048-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-58048-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 11/18/2015 09:19 End Date: 11/18/2015 16:43

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-207319/1	1		09:19	X																			
LCS 240-207319/2	1	T	09:19	X																			
ZZZZZZ			09:19																				
ZZZZZZ			09:19																				
ZZZZZZ			09:19																				
ZZZZZZ			09:19																				
CCV 240-207319/7	1		09:19	X																			
ZZZZZZ			09:19																				
ZZZZZZ			09:19																				
CCV 240-207319/10			09:19																				
ZZZZZZ			09:19																				
ZZZZZZ			09:19																				
CCV 240-207319/13	1		09:19	X																			
240-58044-F-1 DU	1	T	12:00	X																			
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
240-58048-1	1	T	12:00	X																			
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
ZZZZZZ			12:00																				
CCV 240-207319/21	1		16:43	X																			
ZZZZZZ			16:43																				
ZZZZZZ			16:43																				
ZZZZZZ			16:43																				
CCV 240-207319/25			16:43																				
ZZZZZZ			16:43																				
ZZZZZZ			16:43																				
ZZZZZZ			16:43																				
ZZZZZZ			16:43																				
ZZZZZZ			16:43																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Batch Number: 207319 Batch Start Date: 11/18/15 09:19 Batch Analyst: Weimer, Joshua W

Batch Method: 4500 H+ B-2000 Batch End Date: 11/18/15 17:54

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-207319/1		4500 H+ B-2000		10 mL	6.98 SU	21.3 Celsius			pH = Read 1
LCS 240-207319/2		4500 H+ B-2000		10 mL	6.14 SU	21.6 Celsius			pH = Read 1
CCV 240-207319/7		4500 H+ B-2000		10 mL	7.02 SU	21.0 Celsius			pH = Read 1
CCV 240-207319/13		4500 H+ B-2000		10 mL	7.00 SU	19.6 Celsius			pH = Read 1
240-58044-F-1 DU		4500 H+ B-2000	T	10 mL	7.43 SU	17.7 Celsius	7.44 SU	17.7 Celsius	Read 2 Pass
240-58048-D-1	DSP-10-111715	4500 H+ B-2000	T	10 mL	6.57 SU	17.3 Celsius	6.56 SU	17.4 Celsius	Read 2 Pass
CCV 240-207319/21		4500 H+ B-2000		10 mL	7.01 SU	20.2 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00086	WCPHLCS 00010				
CCV 240-207319/1		4500 H+ B-2000		10 mL					
LCS 240-207319/2		4500 H+ B-2000			10 mL				
CCV 240-207319/7		4500 H+ B-2000		10 mL					
CCV 240-207319/13		4500 H+ B-2000		10 mL					
240-58044-F-1 DU		4500 H+ B-2000	T						
240-58048-D-1	DSP-10-111715	4500 H+ B-2000	T						
CCV 240-207319/21		4500 H+ B-2000		10 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-58048-1

SDG No.:

Batch Number: 207319 Batch Start Date: 11/18/15 09:19 Batch Analyst: Weimer, Joshua W

Batch Method: 4500 H+ B-2000 Batch End Date: 11/18/15 17:54

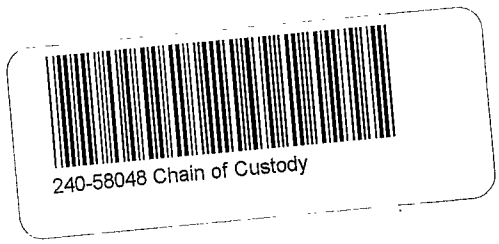
Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-1838816
pH Buffer 2 ID	4-2124388
pH Buffer 3 ID	7-2241807
pH Buffer 4 ID	10-2124389
pH Buffer 5 ID	12-2125110
Calibration Date and Time	11/18/15; 9:30
Electronic Slope	97.4
Instrument ID	Randolph
Probe ID	WCP104
Sufficient volume for sample dup	Y

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

4.3/C4.4

Tetra Tech, Inc. CHAIN OF CUSTODY | NUMBER No. 0317 | PAGE 1 OF 1

PROJECT NO: 112IC04769-31	FACILITY: MRC (Block E)	PROJECT MANAGER Chris Pike	PHONE NUMBER (412) 302-1624	LABORATORY NAME AND CONTACT: Test America - John McFadden
SAMPLERS (SIGNATURE)		FIELD OPERATIONS LEADER Stu Cameron	PHONE NUMBER (703) 342-8389	ADDRESS 4101 Shuffel St NW
		CARRIER/WAYBILL NUMBER		CITY, STATE North Canton, OH 44720

STANDARD TAT ☐ (5 day)
RUSH TAT ☐
☐ 24 hr. ☐ 48 hr. ☐ 72 hr. ☐ 7 day ☐ 14 day

DATE YEAR 2015	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, QC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS	CONTAINER TYPE PLASTIC (P) or GLASS (G)										COMMENTS
		TYPE OF ANALYSIS							VOC-PP	pH									
		PRESERVATIVE USED							none	none									
11/17	1240	DSP-10-111715				GW	G	4	X	X									

1. RELINQUISHED BY — DATE 11/17/15 — TIME 1515 — 1. RECEIVED BY Jacqueline Ferrel — DATE 11/18/15 — TIME 1000
2. RELINQUISHED BY — DATE — TIME — 2. RECEIVED BY — DATE — TIME
3. RELINQUISHED BY — DATE — TIME — 3. RECEIVED BY — DATE — TIME
COMMENTS

DISTRIBUTION: WHITE (ACCOMPANIES SAMPLE) YELLOW (FIELD COPY) PINK (FILE COPY)

4/02R
FORM NO. TtNUS-001

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** _____

Canton Facility

Client Tetra Tech Site Name _____ Cooler unpacked by: G. Jewell

Cooler Received on 11/18/15 Opened on 11/18/15

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box ~~Client Cooler~~ Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 53 (CF **+0.1** °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

IR GUN# 48 (CF **-0.3** °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C ☐ See Multiple Cooler Form

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C~~

IR GUN# 8 (CF **-0.5** °C) Observed Cooler Temp._____°C Corrected Cooler Temp._____°C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2	(Yes)	No
-Were custody seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	(Yes)	No
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 correct bottle(s) used for the test(s) indicated?	(Yes)	No
10. Sufficient quantity received to perform indicated analyses?	(Yes)	No
11. Were sample(s) at the correct pH upon receipt?	Yes	No (NA) pH Strip Lot# **HC554612**
12. Were VOAs on the COC?	(Yes)	No
13. Were air bubbles >6 mm in any VOA vials?	Yes	(No) NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	(No)
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ 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 the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

12/03/2015 SAMPLING EVENT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-58638-1

Job Description: LM MRC Block E MPE

For:
Tetra Tech, Inc.
Foster Plaza 7
661 Anderson Drive
Pittsburgh, PA 15220-2745

Attention: Chris Pike



Approved for release.
John McFadden
Project Manager I
12/10/2015 2:06 PM

John McFadden, Project Manager I
4101 Shuffel Street NW, North Canton, OH, 44720
john.mcfadden@testamericainc.com
12/10/2015

cc: Tony Apanavage
Samantha Brenner
Kelly Carper
Tobrena Sedlmyer

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the 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. This report is confidential and is intended for the sole use of TestAmerica and its client. All questions regarding this report should be directed to the TestAmerica Project Manager who has signed this report.

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CASE NARRATIVE

Client: Tetra Tech, Inc.

Project: LM MRC Block E MPE

Report Number: 240-58638-1

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 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.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT
The sample was received on 12/4/2015 9:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4º C.

VOLATILE ORGANIC COMPOUNDS (GC/MS)
Sample DSP-11-120315 (240-58638-1) was analyzed for Volatile organic compounds (GC/MS) in accordance with EPA Method 624. The sample was analyzed on 12/07/2015.

The continuing calibration verification (CCV) associated with batch 240-209779 recovered above the upper control limit for carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. The following samples are impacted: DSP-11-120315 (240-58638-1) and (CCVIS 240-209779/3).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PH
Sample DSP-11-120315 (240-58638-1) was analyzed for pH in accordance with SM 4500 H+ B. The sample was analyzed on 12/04/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SAMPLE SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-58638-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-58638-1	DSP-11-120315	Water	12/03/2015 1030	12/04/2015 0945

EXECUTIVE SUMMARY - Detections

Client: Tetra Tech, Inc. Job Number: 240-58638-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-58638-1	**DSP-11-120315**					
pH		6.82	HF	0.100	SU	4500 H+ B-2000

METHOD SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-58638-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CAN	40CFR136A 624	
pH	TAL CAN	SM 4500 H+ B-2000	

Lab References:

TAL CAN = TestAmerica Canton

Method References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

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

METHOD / ANALYST SUMMARY

Client: Tetra Tech, Inc. Job Number: 240-58638-1

Method	Analyst	Analyst ID
40CFR136A 624	Lavey, Tim	TJL1
SM 4500 H+ B-2000	Weimer, Joshua W	JWW

Client: Tetra Tech, Inc. Job Number: 240-58638-1

Client Sample ID: **DSP-11-120315**

Lab Sample ID: 240-58638-1 Date Sampled: 12/03/2015 1030
Client Matrix: Water Date Received: 12/04/2015 0945

624 Volatile Organic Compounds (GC/MS)

Analysis Method:	624	Analysis Batch:	240-209779	Instrument ID:	A3UX9
	N/A	Prep Batch:	N/A	Lab File ID:	UX953662.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/07/2015 2023			Final Weight/Volume:	5 mL
Prep Date:	N/A				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		78 - 125
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	91		61 - 120

General Chemistry

Client Sample ID: **DSP-11-120315**

Lab Sample ID: 240-58638-1 Date Sampled: 12/03/2015 1030
Client Matrix: Water Date Received: 12/04/2015 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
pH	6.82	HF	SU	0.100	0.100	1.0	4500 H+ B-2000

Analysis Batch: 240-209591 Analysis Date: 12/04/2015 1459

Client: Tetra Tech, Inc. Job Number: 240-58638-1

Surrogate Recovery Report

624 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
240-58638-1	DSP-11-120315	96	96	91
MB 240-209779/5		94	95	88
LCS 240-209779/6		97	90	89
240-58658-A-1 MS		99	95	91

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	61-120

Client: Tetra Tech, Inc. Job Number: 240-58638-1

Method Blank - Batch: 240-209779

Method: 624
Preparation: N/A

Lab Sample ID:	MB 240-209779/5	Analysis Batch:	240-209779	Instrument ID:	A3UX9
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UX953652.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/07/2015 1638	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	0.44	U	0.44	1.0
1,1,2,2-Tetrachloroethane	0.22	U	0.22	1.0
1,1,2-Trichloroethane	0.24	U	0.24	1.0
1,1-Dichloroethane	0.30	U	0.30	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
1,2-Dichlorobenzene	0.25	U	0.25	1.0
1,2-Dichloroethane	0.23	U	0.23	1.0
1,2-Dichloropropane	0.25	U	0.25	1.0
1,3-Dichlorobenzene	0.19	U	0.19	1.0
1,4-Dichlorobenzene	0.27	U	0.27	1.0
2-Chloroethyl vinyl ether	0.59	U	0.59	2.0
Acrolein	4.5	U	4.5	20
Acrylonitrile	6.3	U	6.3	20
Benzene	0.35	U	0.35	1.0
Bromoform	0.56	U	0.56	1.0
Bromomethane	0.44	U	0.44	2.0
Carbon tetrachloride	0.43	U	0.43	1.0
Chlorobenzene	0.25	U	0.25	1.0
Chlorodibromomethane	0.43	U	0.43	1.0
Chloroethane	0.32	U	0.32	2.0
Chloroform	0.25	U	0.25	1.0
cis-1,3-Dichloropropene	0.46	U	0.46	1.0
Dichlorobromomethane	0.29	U	0.29	1.0
Ethylbenzene	0.25	U	0.25	1.0
Methylene Chloride	0.33	U	0.33	2.0
Tetrachloroethene	0.31	U	0.31	1.0
Toluene	0.23	U	0.23	1.0
trans-1,2-Dichloroethene	0.30	U	0.30	0.50
trans-1,3-Dichloropropene	0.56	U	0.56	1.0
Trichloroethene	0.22	U	0.22	1.0
Trichlorofluoromethane	0.49	U	0.49	2.0
Vinyl chloride	0.29	U	0.29	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	78 - 125
Toluene-d8 (Surr)	95	80 - 120
4-Bromofluorobenzene (Surr)	88	61 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	89	61 - 120

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	91	61 - 120

Client: Tetra Tech, Inc. Job Number: 240-58638-1

Lab Control Sample - Batch: 240-209591

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	LCS 240-209591/2	Analysis Batch:	240-209591	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/04/2015 1440	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
pH	6.15	6.150	100	97 - 103	

Duplicate - Batch: 240-209591

Method: 4500 H+ B-2000
Preparation: N/A

Lab Sample ID:	240-58614-D-1 DU	Analysis Batch:	240-209591	Instrument ID:	Randolph
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	12/04/2015 1444	Units:	SU	Final Weight/Volume:	10 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	6.89	6.890	0	20	

DATA REPORTING QUALIFIERS

Client: Tetra Tech, Inc. Job Number: 240-58638-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Client: Tetra Tech, Inc. Job Number: 240-58638-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-209779					
LCS 240-209779/6	Lab Control Sample	T	Water	624	
MB 240-209779/5	Method Blank	T	Water	624	
240-58638-1	DSP-11-120315	T	Water	624	
240-58658-A-1 MS	Matrix Spike	T	Water	624	

Report Basis
T = Total

General Chemistry					
Analysis Batch:240-209591					
LCS 240-209591/2	Lab Control Sample	T	Water	4500 H+ B-2000	
240-58614-D-1 DU	Duplicate	T	Water	4500 H+ B-2000	
240-58638-1	DSP-11-120315	T	Water	4500 H+ B-2000	

Report Basis
T = Total

Client: Tetra Tech, Inc. Job Number: 240-58638-1

Laboratory Chronicle

Lab ID: 240-58638-1 **Client ID: DSP-11-120315**

Sample Date/Time: 12/03/2015 10:30 Received Date/Time: 12/04/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-58638-A-1		240-209779		12/07/2015 20:23	1	TAL CAN	TJL1
A:4500 H+ B-2000	240-58638-D-1		240-209591		12/04/2015 14:59	1	TAL CAN	JWW

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	MB 240-209779/5		240-209779		12/07/2015 16:38	1	TAL CAN	TJL1

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	LCS 240-209779/6		240-209779		12/07/2015 15:54	1	TAL CAN	TJL1
A:4500 H+ B-2000	LCS 240-209591/2		240-209591		12/04/2015 14:40	1	TAL CAN	JWW

Lab ID: MS **Client ID: N/A**

Sample Date/Time: 12/03/2015 13:00 Received Date/Time: 12/04/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:624	240-58658-A-1 MS		240-209779		12/08/2015 03:38	100	TAL CAN	TJL1

Lab ID: DU **Client ID: N/A**

Sample Date/Time: 12/03/2015 13:10 Received Date/Time: 12/04/2015 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:4500 H+ B-2000	240-58614-D-1 DU		240-209591		12/04/2015 14:44	1	TAL CAN	JWW

Lab References:
TAL CAN = TestAmerica Canton

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
vm100is_stk_00025	12/19/15	06/19/15	MEOH, Lot 85233	50 mL	vm30241_00003	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00003	04/30/20		restek, Lot A0110589		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm100is_stk_00026	04/14/16	10/14/15	MEOH, Lot 99494	50 mL	vm30241_00003	2 mL	1,4-Dichlorobenzene-d4	100 ug/mL
							Chlorobenzene-d5	100 ug/mL
							Fluorobenzene	100 ug/mL
.vm30241_00003	04/30/20		restek, Lot A0110589		(Purchased Reagent)		1,4-Dichlorobenzene-d4	2500 ug/mL
							Chlorobenzene-d5	2500 ug/mL
							Fluorobenzene	2500 ug/mL
vm50ss_00218	11/04/15	10/28/15	MEOH, Lot na	2 mL	vm50ss_stk_00067	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00067	04/05/16	10/05/15	MEOH, Lot 0000099494	200 mL	VM567650_00023	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00023	06/30/19		Restek, Lot A0104073		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
vm50ss_00222	12/08/15	12/01/15	MEOH, Lot na	2 mL	vm50ss_stk_00067	2 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
.vm50ss_stk_00067	04/05/16	10/05/15	MEOH, Lot 0000099494	200 mL	VM567650_00023	4 mL	1,2-Dichloroethane-d4 (Surr)	50 ug/mL
							4-Bromofluorobenzene (Surr)	50 ug/mL
							Toluene-d8 (Surr)	50 ug/mL
..VM567650_00023	06/30/19		Restek, Lot A0104073		(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	2500 ug/mL
							4-Bromofluorobenzene (Surr)	2500 ug/mL
							Toluene-d8 (Surr)	2500 ug/mL
VMAROLISTDW_00122	10/31/15	10/25/15	MEOH, Lot na	3 mL	VMACROLSTD_00030	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00030	10/31/15	10/01/15	MEOH, Lot 0000099494	20 mL	VM568720_00009	250 uL	Acrolein	250 ug/mL
..VM568720_00009	11/30/15		restek, Lot A0112264		(Purchased Reagent)		Acrolein	20000 ug/mL
VMAROLISTDW_00127	12/08/15	12/01/15	MEOH, Lot na	3 mL	VMACROLSTD_00032	3 mL	Acrolein	250 ug/mL
.VMACROLSTD_00032	02/29/16	11/30/15	MEOH, Lot +171940000118655jm	20 mL	VM568720_00010	250 uL	Acrolein	250 ug/mL
..VM568720_00010	03/31/16		restek, Lot A0115119		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASAW_00112	12/08/15	12/01/15	MEOH, Lot NA	2 mL	VMFASA_00021	2 mL	Acrolein	250 ug/mL
.VMFASA_00021	12/31/15	11/01/15	MEOH, Lot 0000118655	100 mL	VM568720S_00010	1.25 mL	Acrolein	250 ug/mL
..VM568720S_00010	01/31/16		restek, Lot A0113753		(Purchased Reagent)		Acrolein	20000 ug/mL
VMFASGW_00127	12/08/15	12/01/15	MEOH, Lot NA	2 mL	VMFASG_00037	2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.VMFASG_00037	12/30/15	11/30/15	MEOH, Lot +171940000118655jm	50 mL	vm569722S_00001	1 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
..vm569722S_00001	08/31/18		Restek, Lot A0113063		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMFASPW_00129	12/10/15	12/03/15	MEOH, Lot n/a	2 mL	VMRFASP_00024	2 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	50 ug/mL
.VMRFASP_00024	01/31/16	11/01/15	MEOH, Lot 0000118655	100 mL	VM567641S_00007	2.5 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM569723S_00001	2 mL	2-Chloroethyl vinyl ether	50 ug/mL
..VM567641S_00007	02/29/16		Restek, Lot A093733		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM569723S_00001	01/31/18		Restek, Lot A0108188		(Purchased Reagent)		2-Chloroethyl vinyl ether	2500 ug/mL
VMRGAS_00123	10/30/15	10/23/15	MEOH, Lot 0000099494	10 mL	vm569722_00003	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Chloromethane	50 ug/mL
							Dichlorodifluoromethane	50 ug/mL
							Dichlorofluoromethane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00003	04/30/18		Restek, Lot A0110070		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Chloromethane	2500 ug/mL
							Dichlorodifluoromethane	2500 ug/mL
							Dichlorofluoromethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRGAS_00128	12/07/15	11/30/15	MEOH, Lot 0000118655	10 mL	vm569722_00003	0.2 mL	Bromomethane	50 ug/mL
							Chloroethane	50 ug/mL
							Trichlorofluoromethane	50 ug/mL
							Vinyl chloride	50 ug/mL
.vm569722_00003	04/30/18		Restek, Lot A0110070		(Purchased Reagent)		Bromomethane	2500 ug/mL
							Chloroethane	2500 ug/mL
							Trichlorofluoromethane	2500 ug/mL
							Vinyl chloride	2500 ug/mL
VMRPRIMW_00153	10/30/15	10/23/15	MEOH, Lot NA	1 mL	VMRPRIM_00013	1 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
							Vinyl acetate	50 ug/mL
.VMRPRIM_00013	10/31/15	09/01/15	MEOH, Lot 147358	50 mL	VM567641_00013	1.25 mL	1,1,1,2-Tetrachloroethane	50 ug/mL
							1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,1-Dichloropropene	50 ug/mL
							1,2,4-Trichlorobenzene	50 ug/mL
							1,2,4-Trimethylbenzene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3,5-Trimethylbenzene	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,3-Dichloropropane	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon disulfide	50 ug/mL
							Carbon tetrachloride	50 ug/mL

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Chlorobenzene	50 ug/mL
							Chlorobromomethane	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,2-Dichloroethene	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Cyclohexane	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Ethylene Dibromide	50 ug/mL
							Hexane	50 ug/mL
							Isobutyl alcohol	1250 ug/mL
							Isopropylbenzene	50 ug/mL
							m-Xylene & p-Xylene	50 ug/mL
							Methyl acetate	250 ug/mL
							Methyl tert-butyl ether	50 ug/mL
							Methylcyclohexane	50 ug/mL
							Methylene Chloride	50 ug/mL
							Naphthalene	50 ug/mL
							o-Xylene	50 ug/mL
							Styrene	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567642_00015	0.5 mL	2-Butanone (MEK)	100 ug/mL
							2-Hexanone	100 ug/mL
							4-Methyl-2-pentanone (MIBK)	100 ug/mL
							Acetone	100 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
					VM569724_00002	0.5 mL	Vinyl acetate	50 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1,2-Tetrachloroethane	2000 ug/mL
							1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL
							1,1,2-Trichloro-1,2,2-trifluoroethane	2000 ug/mL
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,1-Dichloropropene	2000 ug/mL
							1,2,4-Trichlorobenzene	2000 ug/mL
							1,2,4-Trimethylbenzene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3,5-Trimethylbenzene	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichloropropane	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon disulfide	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorobromomethane	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,2-Dichloroethene	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Cyclohexane	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Ethylene Dibromide	2000 ug/mL
							Hexane	2000 ug/mL
							Isobutyl alcohol	50000 ug/mL
							Isopropylbenzene	2000 ug/mL
							m-Xylene & p-Xylene	2000 ug/mL
							Methyl acetate	10000 ug/mL
							Methyl tert-butyl ether	2000 ug/mL
							Methylcyclohexane	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Naphthalene	2000 ug/mL
							o-Xylene	2000 ug/mL
							Styrene	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567642_00015	02/29/16		Restek, Lot A093365		(Purchased Reagent)		2-Butanone (MEK)	10000 ug/mL
							2-Hexanone	10000 ug/mL
							4-Methyl-2-pentanone (MIBK)	10000 ug/mL
							Acetone	10000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
..VM569724_00002	10/31/15		Restek, Lot A0110407		(Purchased Reagent)		Vinyl acetate	5000 ug/mL
VMRPRIMW_00160	12/14/15	12/07/15	MEOH, Lot NA	1 mL	VMRPRIM_00014	1 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
							2-Chloroethyl vinyl ether	100 ug/mL
.VMRPRIM_00014	01/31/16	11/01/15	MEOH, Lot 0000118655	50 mL	VM567641_00013	1.25 mL	1,1,1-Trichloroethane	50 ug/mL
							1,1,2,2-Tetrachloroethane	50 ug/mL
							1,1,2-Trichloroethane	50 ug/mL
							1,1-Dichloroethane	50 ug/mL
							1,1-Dichloroethene	50 ug/mL
							1,2-Dichlorobenzene	50 ug/mL
							1,2-Dichloroethane	50 ug/mL
							1,2-Dichloropropane	50 ug/mL
							1,3-Dichlorobenzene	50 ug/mL
							1,4-Dichlorobenzene	50 ug/mL
							Acrylonitrile	500 ug/mL
							Benzene	50 ug/mL
							Bromoform	50 ug/mL
							Carbon tetrachloride	50 ug/mL
							Chlorobenzene	50 ug/mL
							Chlorodibromomethane	50 ug/mL
							Chloroform	50 ug/mL
							cis-1,3-Dichloropropene	50 ug/mL
							Dichlorobromomethane	50 ug/mL
							Ethylbenzene	50 ug/mL
							Methylene Chloride	50 ug/mL
							Tetrachloroethene	50 ug/mL
							Toluene	50 ug/mL
							trans-1,2-Dichloroethene	50 ug/mL
							trans-1,3-Dichloropropene	50 ug/mL
							Trichloroethene	50 ug/mL
					VM567643_00020	2.5 mL	2-Chloroethyl vinyl ether	100 ug/mL
..VM567641_00013	02/29/16		restek, Lot A093581		(Purchased Reagent)		1,1,1-Trichloroethane	2000 ug/mL
							1,1,2,2-Tetrachloroethane	2000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1,2-Trichloroethane	2000 ug/mL
							1,1-Dichloroethane	2000 ug/mL
							1,1-Dichloroethene	2000 ug/mL
							1,2-Dichlorobenzene	2000 ug/mL
							1,2-Dichloroethane	2000 ug/mL
							1,2-Dichloropropane	2000 ug/mL
							1,3-Dichlorobenzene	2000 ug/mL
							1,4-Dichlorobenzene	2000 ug/mL
							Acrylonitrile	20000 ug/mL
							Benzene	2000 ug/mL
							Bromoform	2000 ug/mL
							Carbon tetrachloride	2000 ug/mL
							Chlorobenzene	2000 ug/mL
							Chlorodibromomethane	2000 ug/mL
							Chloroform	2000 ug/mL
							cis-1,3-Dichloropropene	2000 ug/mL
							Dichlorobromomethane	2000 ug/mL
							Ethylbenzene	2000 ug/mL
							Methylene Chloride	2000 ug/mL
							Tetrachloroethene	2000 ug/mL
							Toluene	2000 ug/mL
							trans-1,2-Dichloroethene	2000 ug/mL
							trans-1,3-Dichloropropene	2000 ug/mL
							Trichloroethene	2000 ug/mL
..VM567643_00020	02/29/16		restek, Lot A093368		(Purchased Reagent)		2-Chloroethyl vinyl ether	2000 ug/mL
WCPH7_00086	08/31/17		Fisher Scientific, Lot 155105		(Purchased Reagent)		pH	7 SU
WCPHLCS_00010	08/31/16		Phenova, Lot 8137-15		(Purchased Reagent)		pH	6.15 SU

Certification Summary

Client: Tetra Tech, Inc. TestAmerica Job ID: 240-58638-1
Project/Site: LM MRC Block E MPE

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Canton	California	State Program	9	2927
TestAmerica Canton	Connecticut	State Program	1	PH-0590
TestAmerica Canton	Illinois	NELAP	5	200004
TestAmerica Canton	Kansas	NELAP	7	E-10336
TestAmerica Canton	Kentucky (UST)	State Program	4	58
TestAmerica Canton	Kentucky (WW)	State Program	4	98016
TestAmerica Canton	L-A-B	DoD ELAP		L2315
TestAmerica Canton	Minnesota	NELAP	5	039-999-348
TestAmerica Canton	Nevada	State Program	9	OH-000482008A
TestAmerica Canton	New Jersey	NELAP	2	OH001
TestAmerica Canton	New York	NELAP	2	10975
TestAmerica Canton	Ohio VAP	State Program	5	CL0024
TestAmerica Canton	Oregon	NELAP	10	4062
TestAmerica Canton	Pennsylvania	NELAP	3	68-00340
TestAmerica Canton	Texas	NELAP	6	T104704517-15-5
TestAmerica Canton	USDA	Federal		P330-13-00319
TestAmerica Canton	Virginia	NELAP	3	460175
TestAmerica Canton	Washington	State Program	10	C971
TestAmerica Canton	West Virginia DEP	State Program	3	210
TestAmerica Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

624_LL_UP

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
DSP-11-120315	240-58638-1	96	96	91
	MB 240-209779/5	94	95	88
	LCS 240-209779/6	97	90	89
	240-58658-A-1 MS	99	95	91

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	78-125
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene (Surr)	61-120

Column to be used to flag recovery values

FORM II 624

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Lab File ID: UX953652.D Lab Sample ID: MB 240-209779/5

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: A3UX9 Date Analyzed: 12/07/2015 16:38

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 240-209779/6	UX953650.D	12/07/2015 15:54
DSP-11-120315	240-58638-1	UX953662.D	12/07/2015 20:23
	240-58658-A-1 MS	UX953681.D	12/08/2015 03:38

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Lab File ID: BFB3133.D BFB Injection Date: 10/28/2015

Instrument ID: A3UX9 BFB Injection Time: 18:25

Analysis Batch No.: 204197

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.1	
75	30.0 - 60.0 % of mass 95	51.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.0	
173	Less than 2.0 % of mass 174	0.9	(1.3) 1
174	50.0 - 120.00 % of mass 95	73.3	
175	5.0 - 9.0 % of mass 174	5.6	(7.6) 1
176	95.0 - 101.0 % of mass 174	70.5	(96.2) 1
177	5.0 - 9.0 % of mass 176	4.2	(5.9) 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 240-204197/6	UX952969.D	10/28/2015	20:07
	STD8260 240-204197/7	UX952970.D	10/28/2015	20:31
	ICIS 240-204197/8	UX952971.D	10/28/2015	20:54
	STD8260 240-204197/9	UX952972.D	10/28/2015	21:17
	STD8260 240-204197/10	UX952973.D	10/28/2015	21:41
	STD8260 240-204197/11	UX952974.D	10/28/2015	22:04

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Lab File ID: BFB3167.D BFB Injection Date: 12/07/2015

Instrument ID: A3UX9 BFB Injection Time: 15:08

Analysis Batch No.: 209779

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.5	
75	30.0 - 60.0 % of mass 95	46.9	
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	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	77.9	
175	5.0 - 9.0 % of mass 174	5.7	(7.4) 1
176	95.0 - 101.0 % of mass 174	78.2	(100.4) 1
177	5.0 - 9.0 % of mass 176	5.0	(6.4) 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 240-209779/3	UX953649.D	12/07/2015	15:33
	LCS 240-209779/6	UX953650.D	12/07/2015	15:54
	CCV 240-209779/4	UX953651.D	12/07/2015	16:17
	MB 240-209779/5	UX953652.D	12/07/2015	16:38
DSP-11-120315	240-58638-1	UX953662.D	12/07/2015	20:23
	240-58658-A-1 MS	UX953681.D	12/08/2015	03:38

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Sample No.: ICIS 240-204197/8 Date Analyzed: 10/28/2015 20:54

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX952971.D Heated Purge: (Y/N) N

Calibration ID: 31163

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		818984	5.40	635663	8.08	298642	10.31
UPPER LIMIT		1637968	5.90	1271326	8.58	597284	10.81
LOWER LIMIT		409492	4.90	317832	7.58	149321	9.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 240-209779/3		602370	5.40	517544	8.08	251220	10.31

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 624

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Sample No.: CCVIS 240-209779/3 Date Analyzed: 12/07/2015 15:33

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): UX953649.D Heated Purge: (Y/N) N

Calibration ID: 31163

		FB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		602370	5.40	517544	8.08	251220	10.31
UPPER LIMIT		1204740	5.90	1035088	8.58	502440	10.81
LOWER LIMIT		301185	4.90	258772	7.58	125610	9.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 240-209779/6		626965	5.41	536098	8.08	247236	10.32
CCV 240-209779/4		632399	5.40	523068	8.08	243181	10.31
MB 240-209779/5		597294	5.41	492002	8.08	238058	10.32
240-58638-1	DSP-11-120315	610957	5.40	532106	8.08	242286	10.32
240-58658-A-1 MS		629516	5.41	535752	8.08	248746	10.32

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 624

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-58638-1

SDG No.:

Client Sample ID: DSP-11-120315 | Lab Sample ID: 240-58638-1

Matrix: Water | Lab File ID: UX953662.D

Analysis Method: 624 | Date Collected: 12/03/2015 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 12/07/2015 20:23

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.: 209779 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Client Sample ID: DSP-11-120315 Lab Sample ID: 240-58638-1

Matrix: Water Lab File ID: UX953662.D

Analysis Method: 624 Date Collected: 12/03/2015 10:30

Sample wt/vol: 5(mL) Date Analyzed: 12/07/2015 20:23

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.: 209779 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-125
2037-26-5	Toluene-d8 (Surr)	96		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-58638-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-204197/11	UX952974.D
Level 2	STD8260 240-204197/10	UX952973.D
Level 3	STD8260 240-204197/9	UX952972.D
Level 4	ICIS 240-204197/8	UX952971.D
Level 5	STD8260 240-204197/7	UX952970.D
Level 6	STD8260 240-204197/6	UX952969.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	+++++ 0.5399	0.2979	0.4108	0.4480	0.5059	Ave		0.4405				21.4		35.0			
Chloromethane	0.5048 0.5269	0.5164	0.5183	0.5203	0.5251	Ave		0.5186				1.5		35.0			
Vinyl chloride	0.4501 0.5467	0.4743	0.5091	0.5317	0.5378	Ave		0.5083				7.6		35.0			
Bromomethane	0.2423 0.3466	0.2548	0.3096	0.3197	0.3327	Ave		0.3009				14.2		35.0			
Chloroethane	0.2162 0.3815	0.2916	0.3482	0.3618	0.3595	Ave		0.3265				19.0		35.0			
Dichlorofluoromethane	0.5022 0.8544	0.7562	0.8263	0.8269	0.8159	Ave		0.7637				17.3		35.0			
Trichlorofluoromethane	0.4154 0.6527	0.4366	0.5585	0.5879	0.6132	Ave		0.5440				17.8		35.0			
Acrolein	0.0427 0.0389	0.0318	0.0363	0.0366	0.0388	Ave		0.0375				9.6		35.0			
Acetone	+++++ 0.1244	0.3158	0.1522	0.1195	0.1228	Lin1	0.3963	0.1199							0.9980		0.9900
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1102 0.3933	0.2992	0.3293	0.3512	0.3634	Ave		0.3078				33.1		35.0			
1,1-Dichloroethene	0.5272 0.8254	0.6344	0.6551	0.7309	0.7771	Ave		0.6917				15.6		35.0			
Carbon disulfide	0.5860 1.6716	1.4363	1.4027	1.5202	1.5777	Ave		1.3658				28.9		35.0			
Methyl acetate	0.3559 0.3123	0.2894	0.2881	0.2916	0.3066	Ave		0.3073				8.4		35.0			
Methylene Chloride	+++++ 0.6316	0.7927	0.5612	0.5758	0.5756	Ave		0.6274				15.3		35.0			
Acrylonitrile	0.1521 0.1587	0.1444	0.1453	0.1447	0.1550	Ave		0.1500				4.1		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-58638-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

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								
Methyl tert-butyl ether	1.0741 1.2979	1.2033	1.1641	1.1976	1.2298	Ave		1.1945				6.2		35.0			
trans-1,2-Dichloroethene	0.4578 0.5730	0.5308	0.4892	0.5130	0.5486	Ave		0.5187				8.0		35.0			
Hexane	0.4626 0.3780	0.4087	0.3373	0.3409	0.3717	Ave		0.3832				12.2		35.0			
1,1-Dichloroethane	0.6458 0.6990	0.5882	0.6299	0.6444	0.6839	Ave		0.6485				6.1		35.0			
Vinyl acetate	0.6481 0.6521	0.5527	0.5486	0.5840	0.6126	Ave		0.5997				7.6		35.0			
2-Butanone (MEK)	0.1868 0.1760	0.1922	0.1606	0.1564	0.1671	Ave		0.1732				8.3		35.0			
cis-1,2-Dichloroethene	0.5237 0.5735	0.5146	0.5178	0.5206	0.5713	Ave		0.5369				5.2		35.0			
Chlorobromomethane	0.3219 0.3269	0.3458	0.3518	0.3081	0.3279	Ave		0.3304				4.9		35.0			
Chloroform	0.5843 0.6805	0.5972	0.6014	0.6237	0.6636	Ave		0.6251				6.2		35.0			
1,1,1-Trichloroethane	0.3477 0.4271	0.3562	0.4105	0.4262	0.4367	Ave		0.4007				9.7		35.0			
Cyclohexane	0.2809 0.3165	0.3893	0.3626	0.4055	0.3349	Ave		0.3483				13.4		35.0			
1,1-Dichloropropene	0.4672 0.4986	0.4408	0.4381	0.4461	0.4807	Ave		0.4619				5.3		35.0			
Carbon tetrachloride	0.2695 0.3417	0.2607	0.2942	0.3110	0.3334	Ave		0.3017				11.0		35.0			
Isobutyl alcohol	0.0124 0.0149	0.0111	0.0128	0.0114	0.0139	Ave		0.0127				11.5		35.0			
Benzene	1.4788 1.6437	1.5949	1.4821	1.5584	1.6089	Ave		1.5611				4.4		35.0			
1,2-Dichloroethane	0.5591 0.5619	0.5436	0.5126	0.5143	0.5531	Ave		0.5408				4.1		35.0			
Trichloroethene	0.3935 0.4016	0.4441	0.3560	0.3618	0.3966	Ave		0.3923				8.1		35.0			
Methylcyclohexane	0.4467 0.4254	0.5292	0.4014	0.4284	0.4411	Ave		0.4454				9.9		35.0			
1,2-Dichloropropane	0.3322 0.3905	0.3553	0.3538	0.3619	0.3882	Ave		0.3637				6.1		35.0			
Dichlorobromomethane	0.4160 0.5613	0.4407	0.4739	0.4839	0.5392	Ave		0.4858				11.5		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-58638-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

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								
2-Chloroethyl vinyl ether	0.2533 0.2827	0.2279	0.2421	0.2583	0.2741	Ave		0.2564				7.9		35.0			
cis-1,3-Dichloropropene	0.6007 0.6811	0.5202	0.5630	0.6127	0.6696	Ave		0.6079				10.1		35.0			
4-Methyl-2-pentanone (MIBK)	0.3189 0.3806	0.3365	0.3405	0.3428	0.3642	Ave		0.3472				6.3		35.0			
Toluene	2.1772 2.2045	2.2939	2.0569	2.1273	2.1741	Ave		2.1723				3.6		35.0			
trans-1,3-Dichloropropene	0.5596 0.7702	0.6167	0.6448	0.7154	0.7402	Ave		0.6745				12.0		35.0			
1,1,2-Trichloroethane	0.3857 0.4735	0.4177	0.4299	0.4481	0.4482	Ave		0.4338				7.0		35.0			
Tetrachloroethene	0.4230 0.4401	0.4712	0.3898	0.4129	0.4127	Ave		0.4249				6.6		35.0			
1,3-Dichloropropane	0.8632 0.8705	0.8288	0.8025	0.8176	0.8544	Ave		0.8395				3.2		35.0			
2-Hexanone	0.2896 0.3318	0.2546	0.2946	0.2960	0.3192	Ave		0.2976				9.0		35.0			
Chlorodibromomethane	0.3458 0.4952	0.3904	0.4222	0.4462	0.4671	Ave		0.4278				12.6		35.0			
Ethylene Dibromide	0.4500 0.4722	0.3774	0.4270	0.4534	0.4677	Ave		0.4413				8.0		35.0			
Chlorobenzene	1.3064 1.4207	1.3250	1.2997	1.3436	1.3997	Ave		1.3492				3.7		35.0			
1,1,1,2-Tetrachloroethane	0.3401 0.4874	0.4624	0.4180	0.4486	0.4737	Ave		0.4384				12.2		35.0			
Ethylbenzene	0.6719 0.7499	0.6442	0.6570	0.6950	0.7320	Ave		0.6917				6.1		35.0			
m-Xylene & p-Xylene	0.8541 0.9241	0.8222	0.8345	0.8710	0.9042	Ave		0.8684				4.6		35.0			
o-Xylene	0.9386 0.9270	0.8053	0.8412	0.8706	0.9132	Ave		0.8826				6.0		35.0			
Styrene	1.3321 1.7201	1.4412	1.4015	1.5482	1.6580	Ave		1.5169				10.0		35.0			
Bromoform	+++++ 0.3287	0.1749	0.2567	0.2901	0.3119	Ave		0.2725				22.3		35.0			
Isopropylbenzene	1.8581 2.1060	2.0650	1.9240	2.0228	2.1127	Ave		2.0148				5.1		35.0			
1,1,2,2-Tetrachloroethane	1.1958 1.4218	1.3601	1.2834	1.3237	1.4439	Ave		1.3381				6.9		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Canton Job No.: 240-58638-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

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								
1,3,5-Trimethylbenzene	3.8546 3.8306	3.5701	3.4351	3.6076	3.9237	Ave		3.7036				5.2		35.0			
1,2,4-Trimethylbenzene	4.2367 4.0880	4.1544	3.6437	3.9165	4.1949	Ave		4.0390				5.5		35.0			
1,3-Dichlorobenzene	2.5735 2.2811	2.4118	2.0960	2.1673	2.2609	Ave		2.2984				7.5		35.0			
1,4-Dichlorobenzene	2.9806 2.3563	2.7849	2.1675	2.2521	2.3308	Ave		2.4787				13.1		35.0			
1,2-Dichlorobenzene	2.5471 2.2432	2.5464	2.0345	2.1087	2.2444	Ave		2.2874				9.5		35.0			
1,2,4-Trichlorobenzene	1.8638 1.3428	2.0621	1.3281	1.3462	1.3999	Ave		1.5571				20.6		35.0			
Naphthalene	4.3206 4.1053	4.4900	3.6020	3.8507	4.1375	Ave		4.0843				7.8		35.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 0.4897	0.4856	0.4138	0.4394	0.4485	Ave		0.4554				7.1		35.0			
Toluene-d8 (Surr)	+++++ 1.8677	1.8729	1.7509	1.7560	1.8457	Ave		1.8186				3.3		35.0			
4-Bromofluorobenzene (Surr)	+++++ 0.7203	0.7611	0.6108	0.6731	0.6913	Ave		0.6913				8.1		35.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-58638-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8260 240-204197/11	UX952974.D
Level 2	STD8260 240-204197/10	UX952973.D
Level 3	STD8260 240-204197/9	UX952972.D
Level 4	ICIS 240-204197/8	UX952971.D
Level 5	STD8260 240-204197/7	UX952970.D
Level 6	STD8260 240-204197/6	UX952969.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	+++++ 1730609	12098	163329	366903	844261	+++++ 80.0	1.00	10.0	20.0	40.0
Chloromethane	FB	Ave	10526 1688895	20976	206095	426122	876183	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl chloride	FB	Ave	9386 1752289	19265	202423	435488	897471	0.500 80.0	1.00	10.0	20.0	40.0
Bromomethane	FB	Ave	5053 1110904	10349	123088	261858	555150	0.500 80.0	1.00	10.0	20.0	40.0
Chloroethane	FB	Ave	4508 1222988	11844	138450	296295	599861	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorofluoromethane	FB	Ave	10473 2738553	30715	328559	677237	1361506	0.500 80.0	1.00	10.0	20.0	40.0
Trichlorofluoromethane	FB	Ave	8662 2092121	17734	222046	481486	1023241	0.500 80.0	1.00	10.0	20.0	40.0
Acrolein	FB	Ave	4448 623420	6462	72101	150070	323575	2.50 400	5.00	50.0	100	200
Acetone	FB	Lin1	+++++ 797501	25651	121060	195702	409871	+++++ 160	2.00	20.0	40.0	80.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2299 1260741	12152	130930	287615	606451	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethene	FB	Ave	10993 2645743	25767	260493	598595	1296817	0.500 80.0	1.00	10.0	20.0	40.0
Carbon disulfide	FB	Ave	12220 5358256	58340	557743	1245051	2632692	0.500 80.0	1.00	10.0	20.0	40.0
Methyl acetate	FB	Ave	37109 5004977	58772	572791	1194038	2557962	2.50 400	5.00	50.0	100	200
Methylene Chloride	FB	Ave	+++++ 2024646	32197	223149	471600	960526	+++++ 80.0	1.00	10.0	20.0	40.0
Acrylonitrile	FB	Ave	31713 5086138	58663	577655	1185261	2586899	5.00 800	10.0	100	200	400
Methyl tert-butyl ether	FB	Ave	22398 4160248	48874	462858	980853	2052203	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-58638-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
trans-1,2-Dichloroethene	FB	Ave	9546 1836552	21561	194503	420155	915380	0.500 80.0	1.00	10.0	20.0	40.0
Hexane	FB	Ave	9647 1211643	16601	134114	279215	620192	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloroethane	FB	Ave	13467 2240502	23892	250459	527742	1141137	0.500 80.0	1.00	10.0	20.0	40.0
Vinyl acetate	FB	Ave	13516 2090245	22449	218111	478307	1022198	0.500 80.0	1.00	10.0	20.0	40.0
2-Butanone (MEK)	FB	Ave	7791 1128055	15614	127722	256257	557753	1.00 160	2.00	20.0	40.0	80.0
cis-1,2-Dichloroethene	FB	Ave	10920 1838299	20901	205884	426333	953272	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobromomethane	FB	Ave	6712 1047985	14044	139894	252319	547081	0.500 80.0	1.00	10.0	20.0	40.0
Chloroform	FB	Ave	12184 2181272	24257	239121	510760	1107274	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1-Trichloroethane	FB	Ave	7250 1368942	14466	163223	349077	728775	0.500 80.0	1.00	10.0	20.0	40.0
Cyclohexane	FB	Ave	5857 1014627	15813	144186	332063	558837	0.500 80.0	1.00	10.0	20.0	40.0
1,1-Dichloropropene	FB	Ave	9742 1598265	17904	174190	365312	802222	0.500 80.0	1.00	10.0	20.0	40.0
Carbon tetrachloride	FB	Ave	5619 1095204	10589	116987	254673	556272	0.500 80.0	1.00	10.0	20.0	40.0
Isobutyl alcohol	FB	Ave	6462 1192643	11257	127172	232918	581251	12.5 2000	25.0	250	500	1000
Benzene	FB	Ave	30838 5268746	64780	589301	1276282	2684782	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane	FB	Ave	11660 1801090	22080	203825	421227	922907	0.500 80.0	1.00	10.0	20.0	40.0
Trichloroethene	FB	Ave	8206 1287264	18038	141542	296315	661761	0.500 80.0	1.00	10.0	20.0	40.0
Methylcyclohexane	FB	Ave	9315 1363686	21495	159584	350843	736017	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloropropane	FB	Ave	6927 1251626	14432	140694	296421	647753	0.500 80.0	1.00	10.0	20.0	40.0
Dichlorobromomethane	FB	Ave	8675 1799092	17902	188418	396282	899776	0.500 80.0	1.00	10.0	20.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	10564 1812318	18514	192502	423110	914802	1.00 160	2.00	20.0	40.0	80.0
cis-1,3-Dichloropropene	FB	Ave	12526 2183198	21128	223850	501754	1117342	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-58638-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methyl-2-pentanone (MIBK)	FB	Ave	13302 2439775	27335	270790	561438	1215448	1.00 160	2.00	20.0	40.0	80.0
Toluene	CBZ	Ave	35439 5656729	71961	644241	1352216	2878893	0.500 80.0	1.00	10.0	20.0	40.0
trans-1,3-Dichloropropene	CBZ	Ave	9108 1976316	19346	201973	454768	980178	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2-Trichloroethane	CBZ	Ave	6278 1214862	13104	134634	284849	593530	0.500 80.0	1.00	10.0	20.0	40.0
Tetrachloroethene	CBZ	Ave	6885 1129310	14783	122087	262464	546417	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichloropropane	CBZ	Ave	14050 2233691	25999	251359	519694	1131367	0.500 80.0	1.00	10.0	20.0	40.0
2-Hexanone	CBZ	Ave	9427 1702975	15972	184512	376252	845366	1.00 160	2.00	20.0	40.0	80.0
Chlorodibromomethane	CBZ	Ave	5628 1270692	12246	132225	283655	618480	0.500 80.0	1.00	10.0	20.0	40.0
Ethylene Dibromide	CBZ	Ave	7324 1211621	11840	133731	288235	619359	0.500 80.0	1.00	10.0	20.0	40.0
Chlorobenzene	CBZ	Ave	21265 3645425	41566	407084	854107	1853379	0.500 80.0	1.00	10.0	20.0	40.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	5536 1250736	14507	130931	285132	627245	0.500 80.0	1.00	10.0	20.0	40.0
Ethylbenzene	CBZ	Ave	10937 1924293	20209	205789	441808	969296	0.500 80.0	1.00	10.0	20.0	40.0
m-Xylene & p-Xylene	CBZ	Ave	13902 2371187	25792	261387	553655	1197323	0.500 80.0	1.00	10.0	20.0	40.0
o-Xylene	CBZ	Ave	15278 2378590	25262	263485	553385	1209195	0.500 80.0	1.00	10.0	20.0	40.0
Styrene	CBZ	Ave	21683 4413733	45211	438968	984137	2195404	0.500 80.0	1.00	10.0	20.0	40.0
Bromoform	CBZ	Ave	+++++ 843406	5488	80392	184426	412996	+++++ 80.0	1.00	10.0	20.0	40.0
Isopropylbenzene	CBZ	Ave	30245 5403902	64780	602615	1285848	2797614	0.500 80.0	1.00	10.0	20.0	40.0
1,1,2,2-Tetrachloroethane	DCB	Ave	8450 1649775	19000	183675	395324	852043	0.500 80.0	1.00	10.0	20.0	40.0
1,3,5-Trimethylbenzene	DCB	Ave	27238 4444866	49871	491633	1077383	2315324	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trimethylbenzene	DCB	Ave	29938 4743518	58033	521487	1169638	2475395	0.500 80.0	1.00	10.0	20.0	40.0
1,3-Dichlorobenzene	DCB	Ave	18185 2646907	33691	299973	647257	1334115	0.500 80.0	1.00	10.0	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Canton Job No.: 240-58638-1 Analy Batch No.: 204197

SDG No.:

Instrument ID: A3UX9 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/28/2015 20:07 Calibration End Date: 10/28/2015 22:04 Calibration ID: 31163

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCB	Ave	21062 2734160	38902	310214	672579	1375405	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichlorobenzene	DCB	Ave	17999 2602946	35571	291181	629742	1324425	0.500 80.0	1.00	10.0	20.0	40.0
1,2,4-Trichlorobenzene	DCB	Ave	13170 1558108	28806	190073	402025	826075	0.500 80.0	1.00	10.0	20.0	40.0
Naphthalene	DCB	Ave	30531 4763564	62721	515522	1149974	2441492	0.500 80.0	1.00	10.0	20.0	40.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	+++++ 1569762	19723	164512	359880	748449	+++++ 80.0	1.00	10.0	20.0	40.0
Toluene-d8 (Surr)	CBZ	Ave	+++++ 4792280	58752	548392	1116231	2444032	+++++ 80.0	1.00	10.0	20.0	40.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	+++++ 1848206	23877	191296	427855	915390	+++++ 80.0	1.00	10.0	20.0	40.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Lab Sample ID: CCVIS 240-209779/3 Calibration Date: 12/07/2015 15:33

Instrument ID: A3UX9 Calib Start Date: 10/28/2015 20:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/28/2015 22:04

Lab File ID: UX953649.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	0.4405	0.4696		0.0213	0.0200	6.6	
Chloromethane	Ave	0.5186	0.5656		0.0218	0.0200	9.0	99.0
Vinyl chloride	Ave	0.5083	0.5844		0.0230	0.0200	15.0	96.0
Bromomethane	Ave	0.3009	0.3618		0.0240	0.0200	20.2	86.0
Chloroethane	Ave	0.3265	0.3904		0.0239	0.0200	19.6	62.0
Dichlorofluoromethane	Ave	0.7637	0.8456		0.0221	0.0200	10.7	
Trichlorofluoromethane	Ave	0.5440	0.5986		0.0220	0.0200	10.0	52.0
Ethyl ether	Ave	0.3502	0.3898		0.0223	0.0200	11.3	
Acrolein	Ave	0.0375	0.0753		0.201	0.100	100.8	
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3078	0.3983		0.0259	0.0200	29.4	
1,1-Dichloroethene	Ave	0.6917	0.7654		0.0221	0.0200	10.7	49.0
Acetone	Lin1	0.1669	0.1465		0.0456	0.0400	13.9	
Iodomethane	Ave	0.5578	0.6673		0.0239	0.0200	19.6	
Carbon disulfide	Ave	1.366	0.9825		0.0144	0.0200	-28.1	
Methyl acetate	Ave	0.3073	0.3583		0.117	0.100	16.6	
Methylene Chloride	Ave	0.6274	0.6309		0.0201	0.0200	0.6	39.0
2-Methyl-2-propanol	Ave	0.0372	0.0544		0.292	0.200	45.9	
Acrylonitrile	Ave	0.1500	0.1907		0.254	0.200	27.1	
Methyl tert-butyl ether	Ave	1.194	1.393		0.0233	0.0200	16.7	
trans-1,2-Dichloroethene	Ave	0.5187	0.5140		0.0198	0.0200	-0.9	30.0
Hexane	Ave	0.3832	0.3583		0.0187	0.0200	-6.5	
1,1-Dichloroethane	Ave	0.6485	0.7128		0.0220	0.0200	9.9	27.0
Vinyl acetate	Ave	0.5997	0.7991		0.0267	0.0200	33.3	
2-Butanone (MEK)	Ave	0.1732	0.2118		0.0489	0.0400	22.3	
cis-1,2-Dichloroethene	Ave	0.5369	0.5873		0.0219	0.0200	9.4	
2,2-Dichloropropane	Ave	0.2809	0.2898		0.0206	0.0200	3.2	
Chlorobromomethane	Ave	0.3304	0.3958		0.0240	0.0200	19.8	
Chloroform	Ave	0.6251	0.6911		0.0221	0.0200	10.6	33.0
1,1,1-Trichloroethane	Ave	0.4007	0.4674		0.0233	0.0200	16.6	25.0
Cyclohexane	Ave	0.3483	0.3191		0.0183	0.0200	-8.4	
1,1-Dichloropropene	Ave	0.4619	0.4843		0.0210	0.0200	4.8	
Carbon tetrachloride	Ave	0.3017	0.4114		0.0273	0.0200	36.4*	27.0
Isobutyl alcohol	Ave	0.0127	0.0181		0.710	0.500	42.1	
Benzene	Ave	1.561	1.697		0.0217	0.0200	8.7	36.0
1,2-Dichloroethane	Ave	0.5408	0.5353		0.0198	0.0200	-1.0	32.0
Trichloroethene	Ave	0.3923	0.4113		0.0210	0.0200	4.9	33.0
Methylcyclohexane	Ave	0.4454	0.3743		0.0168	0.0200	-15.9	
1,2-Dichloropropane	Ave	0.3637	0.3984		0.0219	0.0200	9.6	66.0
Dibromomethane	Ave	0.2123	0.2620		0.0247	0.0200	23.4	
Dichlorobromomethane	Ave	0.4858	0.5487		0.0226	0.0200	12.9	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Lab Sample ID: CCVIS 240-209779/3 Calibration Date: 12/07/2015 15:33

Instrument ID: A3UX9 Calib Start Date: 10/28/2015 20:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/28/2015 22:04

Lab File ID: UX953649.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	0.2564	0.3064		0.0478	0.0400	19.5	99.0
cis-1,3-Dichloropropene	Ave	0.6079	0.6637		0.0218	0.0200	9.2	76.0
4-Methyl-2-pentanone (MIBK)	Ave	0.3472	0.4583		0.0528	0.0400	32.0	
Toluene	Ave	2.172	2.045		0.0188	0.0200	-5.9	26.0
trans-1,3-Dichloropropene	Ave	0.6745	0.7045		0.0209	0.0200	4.4	50.0
Ethyl methacrylate	Ave	0.5933	0.6565		0.0221	0.0200	10.7	
1,1,2-Trichloroethane	Ave	0.4338	0.4486		0.0207	0.0200	3.4	29.0
1,3-Dichloropropane	Ave	0.8395	0.8234		0.0196	0.0200	-1.9	
Tetrachloroethene	Ave	0.4249	0.3981		0.0187	0.0200	-6.3	26.0
2-Hexanone	Ave	0.2976	0.3680		0.0495	0.0400	23.6	
Chlorodibromomethane	Ave	0.4278	0.4595		0.0215	0.0200	7.4	33.0
Ethylene Dibromide	Ave	0.4413	0.4567		0.0207	0.0200	3.5	
Chlorobenzene	Ave	1.349	1.308		0.0194	0.0200	-3.0	34.0
1,1,1,2-Tetrachloroethane	Ave	0.4384	0.4453		0.0203	0.0200	1.6	
Ethylbenzene	Ave	0.6917	0.6533		0.0189	0.0200	-5.5	41.0
m-Xylene & p-Xylene	Ave	0.8684	0.8269		0.0190	0.0200	-4.8	
o-Xylene	Ave	0.8826	0.8350		0.0189	0.0200	-5.4	
Styrene	Ave	1.517	1.470		0.0194	0.0200	-3.1	
Bromoform	Ave	0.2725	0.3130		0.0230	0.0200	14.9	29.0
Isopropylbenzene	Ave	2.015	1.839		0.0183	0.0200	-8.7	
1,1,2,2-Tetrachloroethane	Ave	1.338	1.349		0.0202	0.0200	0.8	39.0
Bromobenzene	Ave	1.233	1.157		0.0188	0.0200	-6.1	
1,2,3-Trichloropropane	Ave	0.4625	0.4549		0.0197	0.0200	-1.7	
trans-1,4-Dichloro-2-butene	Ave	0.4423	0.4229		0.0191	0.0200	-4.4	
N-Propylbenzene	Ave	1.214	1.050		0.0173	0.0200	-13.4	
2-Chlorotoluene	Ave	1.092	0.9115		0.0167	0.0200	-16.5	
1,3,5-Trimethylbenzene	Ave	3.704	3.167		0.0171	0.0200	-14.5	
4-Chlorotoluene	Ave	1.143	0.997		0.0175	0.0200	-12.7	
tert-Butylbenzene	Ave	3.190	2.528		0.0159	0.0200	-20.7	
1,2,4-Trimethylbenzene	Ave	4.039	3.336		0.0165	0.0200	-17.4	
sec-Butylbenzene	Ave	0.9454	0.7571		0.0160	0.0200	-19.9	
1,3-Dichlorobenzene	Ave	2.298	1.957		0.0170	0.0200	-14.9	27.0
4-Isopropyltoluene	Ave	4.072	3.203		0.0157	0.0200	-21.3	
1,4-Dichlorobenzene	Ave	2.479	1.980		0.0160	0.0200	-20.1	37.0
n-Butylbenzene	Ave	3.854	2.654		0.0138	0.0200	-31.1	
1,2-Dichlorobenzene	Ave	2.287	1.963		0.0172	0.0200	-14.2	37.0
1,2-Dibromo-3-Chloropropane	Ave	0.2472	0.2887		0.0234	0.0200	16.8	
1,2,4-Trichlorobenzene	Ave	1.557	1.112		0.0143	0.0200	-28.6	
Hexachlorobutadiene	Lin1	0.7871	0.4171		0.0136	0.0200	-31.8	
Naphthalene	Ave	4.084	4.112		0.0201	0.0200	0.7	
1,2,3-Trichlorobenzene	Ave	1.388	1.033		0.0149	0.0200	-25.6	

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Lab Sample ID: CCVIS 240-209779/3 Calibration Date: 12/07/2015 15:33

Instrument ID: A3UX9 Calib Start Date: 10/28/2015 20:07

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 10/28/2015 22:04

Lab File ID: UX953649.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-Dichloroethane-d4 (Surr)	Ave	0.4554	0.4254		0.0187	0.0200	-6.6	20.0
Toluene-d8 (Surr)	Ave	1.819	1.650		0.0181	0.0200	-9.3	
4-Bromofluorobenzene (Surr)	Ave	0.6913	0.6136		0.0178	0.0200	-11.2	

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-58638-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 240-209779/5

Matrix: Water | Lab File ID: UX953652.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/07/2015 16:38

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.: 209779 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.44	U	1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	0.22	U	1.0	0.22
79-00-5	1,1,2-Trichloroethane	0.24	U	1.0	0.24
75-34-3	1,1-Dichloroethane	0.30	U	1.0	0.30
75-35-4	1,1-Dichloroethene	0.45	U	1.0	0.45
95-50-1	1,2-Dichlorobenzene	0.25	U	1.0	0.25
107-06-2	1,2-Dichloroethane	0.23	U	1.0	0.23
78-87-5	1,2-Dichloropropane	0.25	U	1.0	0.25
541-73-1	1,3-Dichlorobenzene	0.19	U	1.0	0.19
106-46-7	1,4-Dichlorobenzene	0.27	U	1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	0.59	U	2.0	0.59
107-02-8	Acrolein	4.5	U	20	4.5
107-13-1	Acrylonitrile	6.3	U	20	6.3
71-43-2	Benzene	0.35	U	1.0	0.35
75-25-2	Bromoform	0.56	U	1.0	0.56
74-83-9	Bromomethane	0.44	U	2.0	0.44
56-23-5	Carbon tetrachloride	0.43	U	1.0	0.43
108-90-7	Chlorobenzene	0.25	U	1.0	0.25
124-48-1	Chlorodibromomethane	0.43	U	1.0	0.43
75-00-3	Chloroethane	0.32	U	2.0	0.32
67-66-3	Chloroform	0.25	U	1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	0.46	U	1.0	0.46
75-27-4	Dichlorobromomethane	0.29	U	1.0	0.29
100-41-4	Ethylbenzene	0.25	U	1.0	0.25
75-09-2	Methylene Chloride	0.33	U	2.0	0.33
127-18-4	Tetrachloroethene	0.31	U	1.0	0.31
108-88-3	Toluene	0.23	U	1.0	0.23
156-60-5	trans-1,2-Dichloroethene	0.30	U	0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	0.56	U	1.0	0.56
79-01-6	Trichloroethene	0.22	U	1.0	0.22
75-69-4	Trichlorofluoromethane	0.49	U	2.0	0.49
75-01-4	Vinyl chloride	0.29	U	2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 240-209779/5

Matrix: Water Lab File ID: UX953652.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/07/2015 16:38

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.: 209779 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-125
2037-26-5	Toluene-d8 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	88		61-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-58638-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 240-209779/6

Matrix: Water | Lab File ID: UX953650.D

Analysis Method: 624 | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 12/07/2015 15:54

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.: 209779 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.7		1.0	0.44
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.0	0.22
79-00-5	1,1,2-Trichloroethane	20.5		1.0	0.24
75-34-3	1,1-Dichloroethane	21.8		1.0	0.30
75-35-4	1,1-Dichloroethene	19.7		1.0	0.45
95-50-1	1,2-Dichlorobenzene	17.5		1.0	0.25
107-06-2	1,2-Dichloroethane	19.7		1.0	0.23
78-87-5	1,2-Dichloropropane	21.6		1.0	0.25
541-73-1	1,3-Dichlorobenzene	17.3		1.0	0.19
106-46-7	1,4-Dichlorobenzene	16.9		1.0	0.27
110-75-8	2-Chloroethyl vinyl ether	23.9		2.0	0.59
107-02-8	Acrolein	168		20	4.5
107-13-1	Acrylonitrile	242		20	6.3
71-43-2	Benzene	21.2		1.0	0.35
75-25-2	Bromoform	21.3		1.0	0.56
74-83-9	Bromomethane	21.5		2.0	0.44
56-23-5	Carbon tetrachloride	26.2		1.0	0.43
108-90-7	Chlorobenzene	18.8		1.0	0.25
124-48-1	Chlorodibromomethane	20.2		1.0	0.43
75-00-3	Chloroethane	21.7		2.0	0.32
67-66-3	Chloroform	20.9		1.0	0.25
10061-01-5	cis-1,3-Dichloropropene	21.9		1.0	0.46
75-27-4	Dichlorobromomethane	21.0		1.0	0.29
100-41-4	Ethylbenzene	18.4		1.0	0.25
75-09-2	Methylene Chloride	18.4		2.0	0.33
127-18-4	Tetrachloroethene	17.7		1.0	0.31
108-88-3	Toluene	18.8		1.0	0.23
156-60-5	trans-1,2-Dichloroethene	21.7		0.50	0.30
10061-02-6	trans-1,3-Dichloropropene	21.6		1.0	0.56
79-01-6	Trichloroethene	20.5		1.0	0.22
75-69-4	Trichlorofluoromethane	19.2		2.0	0.49
75-01-4	Vinyl chloride	20.3		2.0	0.29

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Client Sample ID: Lab Sample ID: LCS 240-209779/6

Matrix: Water Lab File ID: UX953650.D

Analysis Method: 624 Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 12/07/2015 15:54

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.: 209779 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		78-125
2037-26-5	Toluene-d8 (Surr)	90		80-120
460-00-4	4-Bromofluorobenzene (Surr)	89		61-120

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Canton | Job No.: 240-58638-1

SDG No.:

Client Sample ID: | Lab Sample ID: 240-58658-A-1 MS

Matrix: Water | Lab File ID: UX953681.D

Analysis Method: 624 | Date Collected: 12/03/2015 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 12/08/2015 03:38

Soil Aliquot Vol: | Dilution Factor: 100

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

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

Analysis Batch No.: 209779 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2630		100	44
79-00-5	1,1,2-Trichloroethane	1870		100	24
75-34-3	1,1-Dichloroethane	2280		100	30
75-35-4	1,1-Dichloroethene	2100		100	45
95-50-1	1,2-Dichlorobenzene	1710		100	25
107-06-2	1,2-Dichloroethane	1880		100	23
78-87-5	1,2-Dichloropropane	2120		100	25
541-73-1	1,3-Dichlorobenzene	1620		100	19
106-46-7	1,4-Dichlorobenzene	1600		100	27
110-75-8	2-Chloroethyl vinyl ether	1090		200	59
75-25-2	Bromoform	1880		100	56
74-83-9	Bromomethane	2220		200	44
56-23-5	Carbon tetrachloride	2430		100	43
108-90-7	Chlorobenzene	1820		100	25
124-48-1	Chlorodibromomethane	1790		100	43
75-00-3	Chloroethane	2270		200	32
67-66-3	Chloroform	2090		100	25
10061-01-5	cis-1,3-Dichloropropene	1980		100	46
75-27-4	Dichlorobromomethane	2020		100	29
75-09-2	Methylene Chloride	1850		200	33
127-18-4	Tetrachloroethene	1810		100	31
108-88-3	Toluene	1820		100	23
156-60-5	trans-1,2-Dichloroethene	2110		50	30
10061-02-6	trans-1,3-Dichloropropene	1960		100	56
79-01-6	Trichloroethene	2500		100	22
75-69-4	Trichlorofluoromethane	1940		200	49
75-01-4	Vinyl chloride	2380		200	29

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-125
2037-26-5	Toluene-d8 (Surr)	95		80-120
460-00-4	4-Bromofluorobenzene (Surr)	91		61-120

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Instrument ID: A3UX9 Start Date: 10/28/2015 18:25

Analysis Batch Number: 204197 End Date: 10/29/2015 02:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-204197/1		10/28/2015 18:25	1	BFB3133.D	DB-624 0.18(mm)
CCV 240-204197/4		10/28/2015 19:16	1		DB-624 0.18(mm)
STD8260 240-204197/6 IC		10/28/2015 20:07	1	UX952969.D	DB-624 0.18(mm)
STD8260 240-204197/7 IC		10/28/2015 20:31	1	UX952970.D	DB-624 0.18(mm)
ICIS 240-204197/8		10/28/2015 20:54	1	UX952971.D	DB-624 0.18(mm)
STD8260 240-204197/9 IC		10/28/2015 21:17	1	UX952972.D	DB-624 0.18(mm)
STD8260 240-204197/10 IC		10/28/2015 21:41	1	UX952973.D	DB-624 0.18(mm)
STD8260 240-204197/11 IC		10/28/2015 22:04	1	UX952974.D	DB-624 0.18(mm)
ZZZZZ		10/29/2015 00:29	1		DB-624 0.18(mm)
ZZZZZ		10/29/2015 00:53	1		DB-624 0.18(mm)
ZZZZZ		10/29/2015 02:04	2		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Instrument ID: A3UX9 Start Date: 12/07/2015 15:08

Analysis Batch Number: 209779 End Date: 12/08/2015 14:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 240-209779/43		12/07/2015 15:08	1	BFB3167.D	DB-624 0.18(mm)
CCVIS 240-209779/3		12/07/2015 15:33	1	UX953649.D	DB-624 0.18(mm)
LCS 240-209779/6		12/07/2015 15:54	1	UX953650.D	DB-624 0.18(mm)
CCV 240-209779/4		12/07/2015 16:17	1	UX953651.D	DB-624 0.18(mm)
MB 240-209779/5		12/07/2015 16:38	1	UX953652.D	DB-624 0.18(mm)
240-58638-1	DSP-11-120315	12/07/2015 20:23	1	UX953662.D	DB-624 0.18(mm)
ZZZZZ		12/07/2015 20:46	1		DB-624 0.18(mm)
ZZZZZ		12/07/2015 21:09	100		DB-624 0.18(mm)
ZZZZZ		12/07/2015 21:32	1		DB-624 0.18(mm)
ZZZZZ		12/07/2015 21:53	1		DB-624 0.18(mm)
ZZZZZ		12/07/2015 22:17	1		DB-624 0.18(mm)
ZZZZZ		12/07/2015 22:40	1		DB-624 0.18(mm)
ZZZZZ		12/07/2015 23:03	1		DB-624 0.18(mm)
ZZZZZ		12/07/2015 23:26	1		DB-624 0.18(mm)
ZZZZZ		12/07/2015 23:49	1		DB-624 0.18(mm)
ZZZZZ		12/08/2015 00:11	1		DB-624 0.18(mm)
ZZZZZ		12/08/2015 00:34	1		DB-624 0.18(mm)
ZZZZZ		12/08/2015 00:57	1		DB-624 0.18(mm)
ZZZZZ		12/08/2015 01:20	1		DB-624 0.18(mm)
ZZZZZ		12/08/2015 01:43	1		DB-624 0.18(mm)
ZZZZZ		12/08/2015 02:06	100		DB-624 0.18(mm)
ZZZZZ		12/08/2015 02:29	1		DB-624 0.18(mm)
ZZZZZ		12/08/2015 03:15	1		DB-624 0.18(mm)
240-58658-A-1 MS		12/08/2015 03:38	100	UX953681.D	DB-624 0.18(mm)
ZZZZZ		12/08/2015 14:18	10		DB-624 0.18(mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-58638-1

SDG No.:

Project: LM MRC Block E MPE

Client Sample ID	Lab Sample ID
DSP-11-120315	240-58638-1

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DSP-11-120315 Lab Sample ID: 240-58638-1

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG ID.:

Matrix: Water Date Sampled: 12/03/2015 10:30

Reporting Basis: WET Date Received: 12/04/2015 09:45

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
	pH	6.82	0.100	0.100	SU		HF	1	4500 H+ B-2000

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Analyst: JWW Batch Start Date: 12/04/2015

Reporting Units: SU Analytical Batch No.: 209591

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:39	pH	7.000	7.00	100	99-101		WCPH7_00086
10	CCV	15:01	pH	6.970	7.00	100	99-101		WCPH7_00086

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

FORM II-IN

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 209591 Date: 12/04/2015 14:44								
4500 H+ B-2000		240-58614-D-1	pH	6.89	SU			
4500 H+ B-2000		240-58614-D-1 DU	pH	6.890	SU	0	20	

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 209591	Date: 12/04/2015 14:40										
						LCS Source: WCPHLCS_00010					
4500 H+ B-2000	LCS 240-209591/2	pH	6.150		SU	6.15	100	97-103			

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

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-58638-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 RL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	RL (SU)	
pH		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job Number: 240-58638-1

SDG Number:

Matrix: Water Instrument ID: Randolph

Method: 4500 H+ B-2000 XRL Date: 01/28/2010 09:54

Analyte	Wavelength/ Mass	XRL (SU)	
pH		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Instrument ID: Randolph Method: 4500 H+ B-2000

Start Date: 12/04/2015 14:39 End Date: 12/04/2015 17:08

Lab Sample ID	D / F	Type	Time	Analytes																			
				pH																			
CCV 240-209591/1	1		14:39	X																			
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
ZZZZZZ			14:39																				
LCS 240-209591/2	1	T	14:40	X																			
ZZZZZZ			14:42																				
240-58614-D-1 DU	1	T	14:44	X																			
ZZZZZZ			14:46																				
ZZZZZZ			14:48																				
ZZZZZZ			14:52																				
ZZZZZZ			14:55																				
240-58638-1	1	T	14:59	X																			
CCV 240-209591/10	1		15:01	X																			
ZZZZZZ			17:00																				
ZZZZZZ			17:05																				
CCV 240-209591/13			17:08																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Batch Number: 209591 Batch Start Date: 12/04/15 14:39 Batch Analyst: Weimer, Joshua W

Batch Method: 4500 H+ B-2000 Batch End Date: 12/04/15 17:55

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	pHRead1	TempRead1	pHRead2	TempRead2	CalcMsg
CCV 240-209591/1		4500 H+ B-2000		10 mL	7.00 SU	19.2 Celsius			pH = Read 1
LCS 240-209591/2		4500 H+ B-2000		10 mL	6.15 SU	19.5 Celsius			pH = Read 1
240-58614-D-1 DU		4500 H+ B-2000	T	10 mL	6.88 SU	20.5 Celsius	6.89 SU	20.4 Celsius	Read 2 Pass
240-58638-D-1	DSP-11-120315	4500 H+ B-2000	T	10 mL	6.83 SU	21.6 Celsius	6.82 SU	21.5 Celsius	Read 2 Pass
CCV 240-209591/10		4500 H+ B-2000		10 mL	6.97 SU	19.5 Celsius			pH = Read 1

Lab Sample ID	Client Sample ID	Method Chain	Basis	WCPH7 00086	WCPHLCS 00010				
CCV 240-209591/1		4500 H+ B-2000		10 mL					
LCS 240-209591/2		4500 H+ B-2000			10 mL				
240-58614-D-1 DU		4500 H+ B-2000	T						
240-58638-D-1	DSP-11-120315	4500 H+ B-2000	T						
CCV 240-209591/10		4500 H+ B-2000		10 mL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Canton Job No.: 240-58638-1

SDG No.:

Batch Number: 209591 Batch Start Date: 12/04/15 14:39 Batch Analyst: Weimer, Joshua W

Batch Method: 4500 H+ B-2000 Batch End Date: 12/04/15 17:55

Batch Notes	
Batch Comment	5-pt
pH Buffer 1 ID	2-2310592
pH Buffer 2 ID	4-2124388
pH Buffer 3 ID	7-2241807
pH Buffer 4 ID	10-2124389
pH Buffer 5 ID	12-2125110
Calibration Date and Time	12/04/15 ; 15:03
Electronic Slope	100%
Instrument ID	Randolph
Pipette ID	B6
Probe ID	WCP104
Sufficient volume for sample dup	Y

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

CHAIN OF CUSTODY
AND
RECEIVING DOCUMENTS



240-58638 Chain of Custody

4101 Shuffel Street, N.W. North Canton, OH 44720 **tel** 330.497.9396 **fax** 330.497.0772 **www.testamericainc.com**

2.31C.24

Chain of Custody Record

016545

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Pike	Site Contact: Steve Green	Date: 12/3/15	COC No:
Company Name: Tetra Tech	Tel/Fax: (912) 302-1624	Lab Contact: John McFadden	Carrier:	1 of 1 COCs
Address: 20251 Century Blvd Ste 200	Analysis Turnaround Time			Sampler:
City/State/Zip: Germantown MD, 20874	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: (301) 528-3002	TAT if different from Below 5 day			Walk-in Client:
Fax: (301) 528-3060	☐ 2 weeks			Lab Sampling:
Project Name: MRC Block E MPE	☐ 1 week			
Site: Middle River Complex, MD	☐ 2 days			Job / SDG No.: 112IC04770
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	VOCs - pp	pH	Sample Specific Notes:
DSP-11-120315	12-3-15	1030	G	AQ	4	N	N	X	X	

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Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ 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:

Custody Seals Intact: ☐ Yes ☒ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Tetra Tech	12-3-15/1130			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA	12/4/15 945

TestAmerica Canton Sample Receipt Form/Narrative Login # : 588638
Canton Facility

Client Tetra Tech Site Name _____ Cooler unpacked by: Alex Lee

Cooler Received on 12/4/15 Opened on 12/4/15

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 53 (CF +0.1 °C) Observed Cooler Temp. 2.3 °C Corrected Cooler Temp. 2.4 °C

IR GUN# 48 (CF -0.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C ☐ See Multiple Cooler Form

~~IR GUN# 5 (CF +0.4 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C~~

IR GUN# 8 (CF -0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were custody seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	(No)
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	(No)
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 correct bottle(s) used for the test(s) indicated?	(Yes)	No
10. Sufficient quantity received to perform indicated analyses?	(Yes)	No
11. Were sample(s) at the correct pH upon receipt?	Yes	No (NA) pH Strip Lot# **HC559158**
12. Were VOAs on the COC?	(Yes)	No
13. Were air bubbles >6 mm in any VOA vials?	Yes	No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes	(No)
15. Was a LL Hg or Me Hg trip blank present? _____	Yes	(No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ 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 the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____